

Annual Report

France Chicago Center
University of Chicago

2021-2022



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***Cover:** Photo from the December 10, 2021 performance of Bridge #14 (Les Sangliers):
Featuring Keeffe Jackson on saxophones & clarinets, Dave Rempis on
saxophones, Christine Wodrascka on piano, and Peter Orins and Michael
Zerang on drums.*

STUDENT MOBILITY

While yearlong international student exchange opportunities remain on hold, and pandemic-related travel restrictions still prevent resumption of FCC's international internship support programs, we're pleased to report that after a one-year hiatus the François Furet Travel Grant program—made possible through the generous support of the French Ministry for Higher Education & Research—is again fully operational. During the summer of 2021 this program funded the travels of eight talented University of Chicago students who engaged in activities ranging from pre-dissertation archival research, B.A. Paper research, structured intensive and immersive language-study and study abroad experiences, and volunteer work with local non-profits.

Below is a list of the students who benefited from a François Furet Travel Grant, along with a short summary of the projects that they pursued while in France. The pages that follow offer the full reports submitted by these students.

Tim DeMay, a Ph.D. student in the Department of English, received a \$2,500 grant to support his 11-week research stay in Paris and Dijon to conduct research, site visits, and interviews that will inform a chapter of his dissertation. During the course of his research, he also engaged in volunteer work with refugee and migrant squatter communities.

Mariah Mender, MAPH student received a \$2,500 grant to support her 4-week intensive language study experience at the Alliance Française in Marseille and her preliminary research at the *Archives Nationales d'outre mer* (ANOM) in Aix-en Provence.

Luke Foster, a Ph.D. student in Social thought received a \$2,500 grant to support his 4-month stay in Paris to work with scholars in his field and to take advantage of a teaching opportunity at Sciences Po's Reims campus.

Brando Sward, a Ph.D. student in Sociology, received a \$2,500 grant to support his 3-month research stay in Paris, where he conducted archival research at the Ecole Pratique des Hautes Etudes and advanced dissertation work through engagement with the University of Chicago Center in Paris.

Joshua Silver, a Ph.D. student in Sociology, received a \$2,500 travel grant to support his participation in a weeklong conference on Anti-Colonialism at the University of Chicago Center in Paris (organized by Julien Go). While in Paris, he also conducted archival research at the *Archives de Paris* and the *Bibliothèque de France*.

Grace Lyons, an undergraduate student in the College, received a \$2,500 grant to support (in part) her yearlong study abroad experience at Sciences Po Paris.

Saadia Mirza, Ph.D. student in Anthropology, received a \$2,500 in support of her yearlong stay at EHESS, where she enrolled in seminars led by Roberto Casati and Georges Didi Huberman, while also conducting research at Université de Paris Diderot and the University of Chicago Center in Paris.

Tracy Brannstrom, a Ph.D. student in Comparative Human Development, received a \$2,500 grant to support her 6-week research stay in Paris and Lyon. While in France, she was able to conduct interviews with researchers and practitioners whose work inform her dissertation.

STUDENT TRAVEL GRANT REPORTS



Name: Tim DeMay (English)

Location(s): Paris and Dijon

Departure Date: 7/7/2021

Date of Return: 9/15/2021

Principal Accomplishments: While in Paris I was able to conduct site-visits and interviews for the 4th chapter of my dissertation. This chapter is on squatting and alternative communities, and I wanted to incorporate contemporary examples and voices into the writing. I visited art squats in Paris like 59Rivoli that have been legitimized by the state, an underground quasi-squat, a couple anarchist squats in Montreuil, and a long-lasting anarchist squat in Dijon on my own, conducting informal interviews. I also volunteered with two organizations, Utopia 56 and Watizat, that work with refugee communities and have connections to refugee and migrant squats in Paris. With these organizations I was able to witness another side of informal settlements that greatly influenced my thinking and research.

At the same time, I was conducting literary research on participatory art and was specifically interested in a short-lived literary magazine run by American poets in Paris in the 60s called Locus Solus, I was able to spend a week at the Centre Pompidou library where I made use of its archival holdings of the original printings of this magazine. By the time I left, I had a rough outline of my fourth chapter completed (and I had rewritten a previous chapter while conducting the above research).

Language Study Reflections: Language study was not the main purpose or secondary purpose of my visit, though every return to France strengthens my confidence in the language. In this case, volunteering with two French language organizations gave me experience in new registers and lexicons outside of the academic.

Impact and Significant Benefits: My summer in France was integral to a revision of the methodologies I have been using in my dissertation. This is the first albeit-amateur research I have done "on the ground," and while it was not formal, and meant primarily to experience what I am writing about, it has prompted an interest in ethnography and anthropology that has shaped my plans after my dissertation.



Name: Mariah Bender (Humanities)

Location(s): Marseille, Paris, Nice

Departure Date: 7/30/2021

Date of Return: 8/28/2021

Principal Accomplishments: During my time in Marseille, I participated in a 17 hours per week French class and visited the Archives in Aix-en-Provence to learn more about archival research. At the archives, I worked with the archive librarians to learn how to use the catalogue to find sources related to Saint-Domingue and the period of the French Revolution and particularly elements of religion. Mainly because my work focuses on the role of African religions in the colony, I was interested in learning more about Moureau St. Mery's papers and specifically how he notes the development of Petwo rituals in Vodou. I was able to practice more French reading for academic purposes along with developing a research question of inquiry for archival settings. In terms of the language element, the course began with a bit of survival French and then moved towards introducing tenses, vocabulary, and working through written compositions. As a historian, I was able to visit the local museums in Marseille and analyze the exhibits in relation to the military history of Marseille. It was useful to explore the role of the military and the history of the city and how it fit into the broader French Empire. The museum visits also left me with more questions of inquiry useful to my research in particular on the development of slavery in the Mediterranean and how the historical legacy of slavery in the Mediterranean currently impacts the relationships between migrants in France.

Language Study Reflections: The courses at Alliance Francaise were incredibly useful in building on the skills from the French for Reading course I enrolled in during the summer quarter. The academic reading course was helpful in identifying specific verbs and tips for reading in a foreign language, but it was not until I was immersed fully in French that I felt more confident in reading and speaking in French. Secondly, the course introduced us to a variety of dialects and through weekend travel I was able to compare the different dialects from the southern regions to those in the north.

Impact and Significant Benefits: The most significant professional development was in the use of the archives in Aix-en-Provence and the orientation to use of microfilm, catalogue, and the introduction to conducting research in a foreign country. Prior to my trip, I only had experience working with microfilm and archives in the American context and so, working in a new archive and practicing French reading and speaking in an academic context was incredibly useful. I can now use these skills of using archives in foreign settings to assist in the multi-country study of slavery in the Caribbean which I plan to continue in the upcoming year.



Name: Luke Foster (Social Thought)

Location(s): Paris, France

Departure Date: 8/28/2021

Date of Return: 12/19/2021

Principal Accomplishments: As a recipient of the François Furet grant, I was able to extend my stay in France beyond the 2020-2021 academic year. I was able to accept an invitation for the Autumn 2021 semester to teach a class of my own design on the political philosophical stakes of liberal arts education at Sciences Po-Reims, an excellent opportunity to learn about the similarities and differences between the American and French educational traditions. This was an excellent experience that forged lasting bonds with the Sciences Po-Reims staff and students. I was also able to deepen my experience at the Sciences Po Cevipof laboratory, accepting an invitation to speak at their séminaire générale in the Spring semester and deepening my research collaboration with Alexandre Escudier while completing and revising the draft of my dissertation. I also participated in hosting the Sciences Po annual graduate conference in political theory, meeting colleagues from Germany, Canada, Britain, and the United States. At the Sorbonne, I worked with Celine Spector's student Hugo Toudic, a translator of the Anti-Federalist writings into French. Together with a number of American and French scholars, Hugo is hosting a very important colloquium in June on the reception of Montesquieu in the early United States and has invited me to present there. I also was able to meet with the editor of the Revue Tocqueville, François Melonio, who invited me to publish in the journal. I will certainly maintain these contacts and continue to benefit from them throughout my professional future.

Language Study Reflections: During my time as a research affiliate at the France University of Chicago Center, I was able to build on my Chicago coursework to study more French under François Thuillier. We worked on improving my written fluency in French, particularly in comprehending literature and in drafting academic talks and articles. Due to daily immersion in French, my oral fluency increased dramatically during my stay; from initially able only to hesitantly conduct a basic conversation (B1 level), I improved to at least C1 level, able to converse readily in both academic and social contexts.

Impact and Significant Benefits: In general, I benefitted from the great impetus to my research work on Alexis de Tocqueville's democratic theory that being on the ground in France provided. Specifically, I was able to participate in the 2021 Tocqueville Conversations, hosted at the family chateau by his descendants, which was an incredible experience to better understand the context of his life and work. The specific contacts I have made at Sciences Po, the Sorbonne, and the Revue Tocqueville have positioned me well to be a scholar of the history of French political thought as I complete my University of Chicago PhD and embark on my professional career. I have had an article accepted for publication in the Revue and plan to produce a book comparing the French and American republics' histories of thinking about the need to produce educated elites in democracy. That research will take me back to France to deepen the contacts I have already made.



Name: Brandon Sward (Sociology)

Location(s): Paris

Departure Date: 10/11/2021

Date of Return: 1/15/2022

Principal Accomplishments: I used the funds from my François Furet Travel Grant to pay for my flight to and housing while I was in Paris. I originally went to France to work within the Fonds Pierre Bourdieu housed at the Ecole pratique des hautes études. According to their website, these archives were recently reclassified and were supposed to become available during the 2020-21 academic year. My attempts to secure access the summer of 2021 led in circles, but my first visit to the University of Chicago Center in Paris to audit several advanced French courses taught by Sylvie Garnier brought me into contact with Arnaud Coulombel, who serves as Outreach Coordinator for the Center. With his help, I was able to put together an application for access to the archives, a process which required many steps, including writing (and rewriting) a description of the project in French and securing letters of support from my advisor and Robert Morrissey, Director of the Center. Although I was assured the archives were indeed available before the formal submission of my application, by the time I received a response several weeks later, I was told the archives were being moved to Campus Condorcet, whose website would eventually be updated with instructions regarding how to request access to the archives. Having been living in the city for several months and running out of funds, I decided to return to the US to try to secure additional monies and to plan another research trip.

Impact and Significant Benefits: During this period, I also started to think of ways of expanding my project beyond a narrow focus on Bourdieu, perhaps due in part to the difficulties I was experiencing gaining access to the archives. I settled on a broader framing that incorporates the additional cases of Claude Lévi-Strauss and Franz Boas. This iteration has several benefits over previous versions, including allowing me to focus on the issues of Indigeneity and colonization that interest me most greatly, rather than being forced by scope to discuss the entirety of Bourdieu's career.



Name: Joshua Silver (Sociology)

Location(s): Paris, France

Departure Date: 5/27/2022

Date of Return: 6/2/2022

Principal Accomplishments: The primary purpose of my trip was to attend an academic conference organized at the France Chicago Center (Anticolonialism and Social Theory, organized by Julian Go) and meet with scholars working in the same field as me. However, I was also able to conduct archival research at the Archives de Paris and the Bibliotheque Nationale de France. My paper was on the ecological thought of an early Indian sociologist and anticolonial activist Radhakamal Mukerjee. I was able to discuss this paper and Mukerjee's ecological concepts with colleagues working primarily in the former French colonial territories in the Caribbean, Africa, and the Arab World. Particularly productive for me was time spent with Mireille Fanon and several other scholars that are based in France and are major contributors to political theory around postcolonial politics. Interestingly for me, only one or two of the other scholars at the event were working on the environment and colonialism, so I felt good about my paper making a contribution. The feedback on my text will be crucial for me to submit the paper to prominent sociology journals.

In terms of archival research, I was able to access the two previously mentioned archives, however for a separate project on the history of Les Halles des Paris and their role in the provisioning of France and their relationship to wider hinterlands in France and beyond. So, the connection to the conference isn't direct empirically but through the concepts of ecology, operational hinterlands, and commerce under colonialism. Finally, I will be returning to Paris in a few weeks to continue this second project and look deeper into the networks of distribution and wholesaling that began to bring global commodities to France.

Impact and Significant Benefits: I would say I benefitted both intellectually and professionally in three ways. First, I made crucial connections to French and international academic colleagues. Second, I learned how to navigate archives in a very different institutional and linguistic context than what I'm familiar with. Third, I expanded my primary source material for my dissertation. In terms of expanding networks, the FCC conference brought together the most geographically diverse set of scholars I had ever interacted with, from France, South Africa, Australia, India, and beyond. The comments on my paper were supportive and I was connected with crucial archival connections that these scholars were aware of. In the archives, I had the chance to finally put my French language training to historical research after several years of language study, in part supported by FCC in the past. While it can be difficult to learn how to identify and page archival collections in French institutions, I felt like I was competently able to do so by the end of the short trip. This knowledge will serve me when I return to France soon. Finally, the documents I identified will themselves come to serve as evidence in my research and bolster claims I am able to make about France and its system of provisioning, which stands in fascinating contrast to that of the United States and other countries.



Name: Grace Lyons (undergraduate)

Location(s): Paris

Departure Date: 8/26/2021

Date of Return: 5/20/2022

Principal Accomplishments: While I was abroad, I was directly enrolled at SciencesPo Paris, a leading French academic institution. I significantly worked on and improved my academic writing in French. Some of the original academic analyses I produced over the course of the fall semester included an analysis of Freud's *La Malaise dans la Civilisation*, Chapitre 3, for my philosophy class, an essay and literature review on the correlation between beauty standards and employability for my class "L'économie au défi du genre," and a research paper on Tibet and its role in Sino-Indian relations since the 1980s for my International Relations class. The first semester allowed me to familiarize myself with the higher education academic system in France and understand the nuances and differences compared to the American system. In contrast to many of the discussion based seminar courses that I have taken at the University of Chicago, I became more comfortable sitting through and absorbing information during lectures conducted entirely in French during my time at SciencesPo. During the second semester, I enrolled in a rigorous lecture course on Contemporary World History taught by the renowned scholar Marc Lazar. I continued developing my French academic writing skills through different assignments, including weekly discussion posts on articles to read for my course on the intersection of Political Science and Gender, and final research papers for many courses. I also focused on my oral and presentation skills as I had three exposés to present over the course of the semester on the following topics: the fascination of intellectuals with the Soviet model of communism from 1920-1990, an analysis of Cold War era comic books, the post-war rights and duties of Chinese women as portrayed by the film *Vive ma femme*. Over the course of the academic year, I utilized the SciencesPo and Sainte-Geneviève libraries also received support from University of Chicago resources as I worked closely with Sylvie Garnier, a professor and expert in linguistics, methodology, and French academic writing, as well as Céline Marangé, a scholar and research specialist at the Ministry of Defense focused on Russian defense and diplomacy and post-Soviet armed conflicts.

Impact and Significant Benefits: My academic experience abroad enhanced my broader UChicago experience as I was able to immerse myself in a different culture and understand a unique intellectual tradition. I grew up to understand and appreciate the nuances between French and American academia, significantly improved my writing and oral skills, enhanced my ability to analyze and utilize French primary resources, and became more comfortable with my French language skills in both academic and professional settings. As I begin drafting my thesis research proposal this summer in preparation for senior year, I plan on using primary sources in France to support my research. I further benefitted intellectually by developing meaningful relationships with my professors by asking questions and discussing concepts after class. From a professional perspective, my experience abroad truly opened my eyes to a wide variety of career opportunities and paths that were not on my radar. I learned about the plethora of professional opportunities in Europe, and more specifically in France, particularly in areas of non-profit work, research, and state-sponsored positions. I aspire to work abroad and return to Europe after graduating from the University of Chicago.



Name: Saadia Mirza (Anthropology)

Location(s): Paris

Departure Date: 6/29/2021

Date of Return: 5/1/2022

Principal Accomplishments: I completed two chapters of my dissertation and consulted archives and records held at the BnF François Mitterrand that relate to French polar voyages in the early 1900s. In addition, I enrolled in seminars at l'EHESS on affect theory and anthropology (Georges Didi Huberman) and ocean philosophy (Roberto Casati) which directly helped me think through some crucial concepts in my dissertation. I was also able to consult experts at University Diderot in the geophysics department on the environmental sensing. I presented a paper at the University of Chicago Paris Center based on my prior research and have given talks and presentations on my research in international conferences including one in Rotterdam. This stay has been incredibly fruitful for me. Before I return, I expect to have completed the next two chapters of my dissertation for which I have collected my material. I have a few remaining archival materials to consult. This would prepare me to defend my dissertation.

Impact and Significant Benefits: The greatest benefit for me has been the exposure and support to conduct research in an international context. Being able to participate in seminars and intellectual discourse in French universities has broadened my view of academia and given me the confidence to be able to give talks, present, and share my research in wider circles and more interdisciplinary contexts. Most of all, The Paris Center has been a welcoming space for dissertation writing.



Name: Tracy Brannstrom (Social Sciences)

Location(s): Paris and Lyon, France

Departure Date: 3/3/2022

Date of Return: 4/13/2022

Principal Accomplishments: During my time in France, I was able to interview 8 researchers and practitioners of ear acupuncture, or auricular therapy. My dissertation looks at how this therapy is taken up by grassroots movements in the US, in the context of the ‘opioid crisis.’ These groups are drawing on acupuncture maps of the outer ear, many of which were created by researcher-practitioners living and working in France in the past few decades. I wanted to ‘trace’ these maps, and more generally this particular knowledge of the body that draws on acupuncture theory, from rural New England (US) to its place of origin in France. I had questions about how maps were generated, and what strains of thought/practice they emerged from. Essentially, I had a lot of background questions about ear acupuncture knowledge that I was not able to source in texts alone.

I do not have permission to use all of my interviewees names in my dissertation; in many cases I will be using pseudonyms in my writing. So, I will not name them here. In Paris, I interviewed 3 researcher-practitioners over the course of 10 days, and in Lyon (the ‘birthplace’ of ear acupuncture), I interviewed 5 in the remaining 2 weeks or so. Some of these individuals were based out of Groupe Lyonnais d’Etudes Médicales, or GLEM. Each interview lasted 1-2 hours, and the rest of my time was spent transcribing, annotating and otherwise analyzing the interview content. I was also able to meet up with a medical anthropologist in Paris (Emilia Sanabria), at the end of my trip, who helped me to think through some of the content that arose during interviews. Much of my time was spent: 1) arranging interviews via email, 2) preparing for interviews, and 3) processing my time spent talking to interviewees via writing field notes, where I describe my interactions, the environments in which they work, etc.

Impact and Significant Benefits: Being in France (Paris and Lyon) was hugely important for the way I work as an ethnographer. The content of what interviewees described verbally was important, yes, but equally important was the opportunity to be in the very places where they live, and work, and think - the milieus in which this form of medicine (ear acupuncture) has been forged! Visiting them in their places of work, and research, and living (cafes, etc), as well as being able to walk around their cities more generally, was important for my own understanding, and the descriptive content of my writing. To be able to describe a practitioner’s clinical space, for example, will be invaluable in my writing. Likewise, many practitioners showed me tools, maps, and other objects they use in their practice. Had I just interviewed them via the internet, I would not have experienced these different environments, with all that they entail.

NIGHT OF IDEAS



The France Chicago Center was a proud major sponsor of the 2022 Chicago *Nuit des Idées*, a celebration that brought together thinkers, writers, activists, artists, and performers from France, Chicago, and the Midwest to celebrate the free flow of ideas and knowledge through a variety of unique public engagement opportunities. In light of the pandemic and the cautious optimism for a return to something more like “normal,” the theme of the evening was “*Where Are We Going?*”

This iteration of the Chicago Night of Ideas, organized by the Consulate of France in Chicago in conjunction with its many partners, took place on May 12, 2022, from 6:00 pm to 11:00 pm, at the Chicago History Museum. The event drew an audience of around 1000 people and features: 5 workshops, 6 performances (primarily music & dance), 4 panel discussions, 19 talks, 1 film screening, 4 book signing sessions, guided tours organized by the Museum in 3 major exhibitions, a closing party, and a DJ set.

The evening brought together 72 speakers, including 5 from the University of Chicago (as well as 13 UChicago student attendees). 40 volunteers helped assure the smooth organization of an event with many moving pieces.

The images on these two pages offer glimpses into the evenings activities. All photos are by Julien Chatelin.





INTERDISCIPLINARY WORKSHOP ON MODERN FRANCE AND THE FRANCOPHONE WORLD

The Interdisciplinary Workshop on Modern France and the Francophone World brings together UChicago faculty members and advanced graduate students in various departments to discuss papers or drafts of book chapters submitted by faculty members or dissertation chapters submitted by graduate students. All papers are pre-circulated in advance, in order to facilitate deeper and more nuanced discussion. The workshop helps presenters to refine their thoughts before submission and publication, and it also challenges them to articulate the importance of their work in context and to answer specific and often unforeseen questions and concerns about their research. The following sessions were organized by the workshop during the 2021-22 academic year.

Friday, October 22, 3:30 pm

“Charron, Gassendi, and the Transmission of Montaigne’s Epistemology into 17th-Century French Thought”, by Benjamin Ransom, Ph.D. Candidate in French and Francophone Literatures, The University of Chicago.

Friday, November 5, 3:30 pm

“Contesting the Classroom: Reimagining Education in Moroccan and Algerian Literatures”, by Erin Twohig, Associate Professor in French and Francophone Literatures, Georgetown University.

Friday, November 19, 3:30 pm

“Caricature, Skeleton, and the Baudelairean Self: the Emergence of Comicality in ‘Danse Macabre’”, by Xin Yan, MAPH Student, The University of Chicago.

Friday, 4 December, 12:00 pm (Zoom)

“Montesquieu and *The Federalist*. A Contested Legacy”, by Hugo Toudic, Ph.D. Candidate in History, The University of Chicago/CNRS.

Friday, January 14, 12:00 pm

« La poésie française de 1960 à aujourd’hui au prisme de la réception de Pierre Reverdy », by Julia Pont, Ph.D. Candidate in French Literature at Paris-Nanterre Université.

Friday, January 21, 12:00 pm

“Dissertation Proposal: Satirical Interventions under Louis XIV”, by Peadar Kavanagh, Ph.D. Candidate in French and Francophone Literatures, The University of Chicago.

Friday, February 4, 10:00 am

“Vichy France and the Jews: The Impact of Memory on Historiography” a talk and discussion with Renée Poznanski, Professor Emerita in History at Ben-Gurion University, Israel.

Friday, February 18, 12:00 pm

“Dans la chair des textes : l’aveu et le non-dit”, by Loriane Lafont, Ph.D. Candidate in French and Francophone Literatures, The University of Chicago.

Friday, April 15, 3.30 pm

“The Archipelagos of Doubt: A Global History of French Skeptical Cultures (1620-1820)”, a talk by **Stéphane Van Damme**, Professor of History, École Normale Supérieure. **Colin Jones**, Professor of History at the Queen Mary University of London, will serve as respondent.

Friday, April 29, 3.30 pm

“Installation theory in Anglo-Norman funerary monument: the case of Lewes Priory,” by **Kirsten Lopez**, Ph.D. Candidate in French and Francophone Studies, The University of Chicago.

Friday, May 13, 12.00 pm

“Donner la parole: à quel prix? Restitution et dette littéraire dans les recueils de voix contemporains”, by **Mathilde Zbaeren**, Ph.D. Candidate in French and Francophone Literature, University of Lausanne.

THE BRIDGE 2.4 & 2.7

Two Great Bands | One Great Night



The Bridge #2.4

Damon Locks - vocals, electronics
Macie Stewart - violin, vocals
Morgane Carnet - tenor & baritone saxophone
Jozef Dumoulin - keyboards, electronics
Fanny Lasfargues - electroacoustic bass

The Bridge #2.7

Jaimie Branch - trumpet, electronics
Isaiah Collier - tenor & soprano saxophones
Rafaelle Rinaudo - harp, electronics
Gilles Coronado - electric guitar
Tim Daisy - drums



Friday, April 22, at 7:00 pm
Logan Center for the Arts

Reception to follow.

These free jazz performances are free and open to the public. Doors open at 6:30 pm.
Seating is limited and available on a first-come basis.

Presented by: The Bridge, Logan Center,
The Department of Music, and the France Chicago Center.

The Bridge is supported by Ministère de la Culture, Sacem, Centre National de la Musique, Spedidam, Adami and Institut Français. The Bridge #2.4 has been made possible through Jazz & New Music, a program of Villa Albertine and FACE Foundation, in partnership with the French Embassy in the United States with support from the French Ministry of Culture, Institut français, SACEM (Société des auteurs, compositeurs et éditeurs de musique) and the CNM (Centre National de la Musique).

CELEBRATING JAN GOLDSTEIN

FCC Faculty Director from 1993 to 2020

Jan Goldstein is one of four founding faculty directors of the France Chicago Center and remained a pillar of FCC—and of the Workshop on Modern France and the Francophone World in particular—throughout her 27 years of service to FCC. On the eve of her transition to professor emerita, her university colleagues, students, and former students came together to organize a conference in her honor that was to have taken place in May of 2020. COVID-related restrictions on travel and public convenings required the postponement of this celebratory gathering. However, on May 13-14, 2022, the happy event took place. The pages that follow offer reproductions of the poster and conference schedule, as well as the speech that was given just prior to her induction into the *Ordre des Palmes Académiques*. Below are photo's taken during that induction ceremony.



Upper Right: Principal conference organizer, Paul Cheney, giving introductory remarks

Above: Nicolas Donay (left), with Jan Goldstein (right) during the Palmes Académique induction ceremony

Right: Nicolas Donay (left) and Jan Goldstein (right) immediated following the pinning of the medal.



**Discours du 13 mai pour Jan Goldstein
Chevalière de l'Ordre des Palmes Académiques**

Prononcé par Nicolas Douay,
Attaché de la Coopération Universitaire au Consulat de France à Chicago

« Bonjour à tous,
Dear Jan Goldstein,
Ladies and gentlemen,

We are gathered today to celebrate Jan Goldstein and to bestow upon her the insignia of Chevalier in the French Ordre des Palmes Académiques.

Instituted by Napoleon in 1808, the Ordre des Palmes Académiques honors and celebrates academics and teachers for valuable service to universities, education and science. It is an extremely honorable achievement and is held in the highest regards.

Jan Goldstein is an internationally recognized scholar of French History who has been a pillar of French studies at the Department of History of the University of Chicago since 1978.

Over nearly 40 years of work at this University, her devoted teaching and excellent scholarship have played a fundamental role in making Chicago one of the leading centers for the study of modern French history and culture in the United States.

*Professor Goldstein's eminence as a scholar of nineteenth-century France is widely acknowledged. She is the author of numerous academic articles and several extraordinary monographs concentrating on the development of the discipline of psychiatry (*Console and Classify; Hysteria Complicated by Ecstasy*) and on the politics and philosophy of the self (*The Post-Revolutionary Self: Politics and Psyche in France, 1750-1850*).*

*Since 1996, she has served as co-editor of the *Journal of Modern History*, the leading journal in European History, including French history, in the Anglophone world. Because of the exemplary quality of her work and her engagement in the profession she was elected president of the American Historical Association for the year 2014.*

She has directed 25 doctoral dissertations on the history of France and dozens of undergraduate honors BA theses on French history. Her students, many of them assembled here today, have gone on to careers in academia, journalism, business, government etc., all of them marked by Jan Goldstein's deep intellectual rigor and curiosity.

*In the years 2000-2001 she was a major player in transforming the Chicago Group on Modern France into the France Chicago Center one of X centers of excellence designated in the United States by the French Government. She has worked tirelessly on scholarship and fellowship committees to choose students working in all aspects of things French. She was also heavily involved in the campaign to create the University of Chicago's Center in Paris, the University's first center abroad, and she went on to serve as its Director in the year 2007-2008. While there she organized several international encounters including a memorable conference: *Paris-Chicago Urban Cultures in comparative historical perspectives*. Here in Chicago, she is involved in innumerable sponsored by the France Chicago Center.*

For her outstanding contributions to history, for her dedication and constant commitment to developing scholarly research and dialogue in the area of French studies broadly writ, and for her selfless dedication to institutions of learning, Jan Goldstein richly deserves this distinction.

She has advanced the understanding of French culture, history, and language in truly significant ways. Her books on the origins of psychiatry in France are recognized as profound contributions to our knowledge of French intellectual history and political culture and classic studies of the emergence of the social sciences in France.

Her convictions and her Francophilia contribute to strengthen the cultural and intellectual exchanges between our two countries.

Dear Jan Goldstein, for your deep devotion to France, its history and its people, I would like to express today, on behalf of the French Republic, my profound gratitude. I am proud, on the behalf of the French Minister of National Education, to bestow upon you the insignia of Chevalier de l'Ordre des Arts et des lettres.

I will now proceed in French:

Madame Jan Goldstein, au nom du Ministre de l'Education Nationale, je vous fais Chevalier dans l'Ordre des Palmes Académiques. »



JAN FEST

A conference in honor of JAN GOLDSTEIN
The University of Chicago | Swift Hall, 3rd floor lecture hall
May 13, 2022, 1pm-5pm & May 14, 2022, 9am-6pm

This conference honors the career of Jan Goldstein, Norman and Edna Freehling Professor Emerita of History, the Conceptual and Historical Studies of Science, and the College, by bringing together current and former students and colleagues, to celebrate her influence as a scholar, as a mentor, and as a friend.

Program available at: <https://fcc.uchicago.edu/conference-in-honor-of-jan-goldstein/>
Conference supported by The College, The Office of the Provost, The Division of the Social Sciences, The France Chicago Center, The Journal of Modern History, The Department of History, and The Morris Fishbein Center for the History of Science & Medicine

JANFEST

A conference in honor of JAN GOLDSTEIN
The University of Chicago | Swift Hall 3rd floor lecture hall | May 13-14, 2022

FRIDAY MAY 13

SESSION 1 (1-5PM | Swift Hall)

President: Robert Richards

Panel A: Science and Knowledge

Chair: Lorraine Daston

Panelists: Dana Simmons, Arthur Clement, Barbara Nadeau

Panel B: *Capitalisme, French touch*

Chair: Paul Cheney

Panelists: Charlotte Robertson, Erika Vause, John Shovlin, Tyson Leichter

SATURDAY MAY 14

SESSION 2 (9AM-1PM | Swift Hall)

President: Kathy Conzen

Panel C: Writing History

Chair: Nancy Green

Panelists: Christine Haynes, David Gutherz, Stéphanie Gerson, Rowin Steinberg

Panel D: Practicing Intellectual History

Chair: Keith Baker

Panelists: Katharine Hamerton, Michael Williams, Camille Robcis, Lisa Leff

SESSION 3 (2:30-6PM | Swift Hall)

President: William H. Sewell

Panel E: Pre- and Post-Revolutionary Selves

Chair: Sarah Maza

Panelists: Charly Coleman, Steve Sawyer, Jean Pedersen, Jim Johnson

Panel F: Beyond France

Chair: Fredrik Jonsson

Panelists: Emily Marker, Robin Bates, Thomas Oddman

The Black Baroque Project presents

Opera-Ballet *Les Indes galantes*

(2019)

October 30, 2021

12-5pm in Max Palevsky Cinema (Doc Films)

Ida Noyes Hall (1212 E. 59th St.)

Free screening (240min)

Followed by a Q&A with choreographer

Bintou Dembélé

Moderated by Noémie Ndiaye (English) and

Martha Feldman (Music)

*Sponsored by: France Chicago Center, Music Department,
Department of Romance Languages and Literatures*

Photo credit: Little Shao

Masks required; no food or drink
allowed in the theater.

BlackBaroque

VISITING ARTIST
INTERVIEWS

FACCTS

France and Chicago Collaborating in the Sciences

FACCTS was created in 2008 by the France Chicago Center to encourage teams of scientists at the University of Chicago and in France to engage in promising collaborative scientific research and to provide resources to support their early-stage efforts. Below and the pages that follow contain information about the 2022 call for proposals. More complete information on each collaboration can be found in the appendix

FACCTS & FIGURES

Total FACCTS Applications Received	20
Applications from Faculty Members in the Physical Sciences (PSD)	10
Applications from Faculty Members in the Biological Sciences (BSD)	1
Application from Faculty Member at the Pritzker School (PME).....	2
Applications from Researchers at Argonne National Laboratory (ANL)	5
Applications from Researchers at Fermilab.....	2
Total Funding Requested.....	\$520,210
Total Requested by PSD Faculty*	\$234,550
Total Requested by BSD Faculty*	\$25,000
Total Requested by PME Faculty*	\$55,000
Total Requested by Researchers at ANL	\$169,260
Total Requested by Researchers at Fermilab	\$36,400
Total Number of FACCTS Grants Awarded	16
Recipients in PSD.....	10
Recipients in BSD	1
Recipient at PME	2
Recipients at ANL	2
Recipient at Fermilab.....	1
Total Funding Allocated to FACCTS Projects in 2022	\$396,010
Allocated to Projects in PSD	\$216,550
Allocated to Projects in BSD.....	\$25,000
Allocated to Projects at PME	\$55,000
Allocated to the ANL-Based Projects	\$79,460
Allocated to the Fermilab-Based Project.....	\$20,000
Average Amount of Each Request	\$26,011
Average Amount of Each Award	\$24,751

PARTNERS/STAKEHOLDERS

Members of the France Chicago Center Support Council in the Sciences (<i>Confrères</i>).....	\$104,000
Argonne National Laboratory	\$79,460
France Chicago Center	\$25,050
Office of the Provost of the University of Chicago.....	\$25,000
Division of the Physical Sciences.....	\$25,000
Division of the Biological Sciences.....	\$25,000
French Ministry of Higher Education, Research, and Innovation	\$25,000
Office of Science and Technology at the Embassy of France in Washington	\$20,000
Pritzker School for Molecular Engineering.....	\$20,000
Fermilab National Accelerator Laboratory	\$20,000
Office of the EVP for Research	\$15,000
Université de Paris Sciences et Lettres (PSL)	\$12,500
Total	\$396,010

REVIEW COMMITTEE

The France Chicago Center gratefully acknowledges the work of the 2022 FACCTS committee, whose members included: **Hannes Bernien** in the Pritzker School for Molecular Engineering (representing PME), **Bill Fefferman** in the Department of Computer Science (representing PSD), and **Keith Moffat** in the Department of Biochemistry & Molecular Biology (representing FCC). **Robert Morrissey** in the Department of Romance Languages & Literatures (representing FCC) chaired the committee. **Jean-Paul Lallès** (Scientific Attaché at the Consulate of France in Chicago), **Mireille Guyader** (Scientific Counselor at the French Embassy in Washington), and **Christophe Delacourt** (French Ministry for Higher Education, Research, and Innovation) participated in the discussion and decision-making as well. **Daniel Bertsche** (Associate Director, France Chicago Center) convened and facilitated the committee’s discussions and deliberations.

FCC SUPPORT COUNCIL IN THE SCIENCES (CONFRÈRES)

This year, the FCC’s Support Council in the Sciences, the members of which are designated as *Confrères*, has generously underwritten in full the costs of four research collaborations—those led by David Kutasov & Monica Guica, Anihuddra Hazra & Jean-Michel Molina, Junhong Chen & Arlette Vega Gonzalez, and John Anderson & Ie-Rang Jeon. Our *Confrères* are now lead stakeholders, providing more than 26% of this year’s total funding. FCC offers heartfelt thanks to the following individuals for their generosity: **Tem Horwitz** (co-chair), **Daniel Weissbluth** (co-chair), **George Austin**, **Sandra Barreto**, **Kara Schupp**, and **Xiao Zhang**. The Science Department of **Francis W. Parker School** also participates in the Support Council program.

SPECIAL THANKS

The France Chicago Center also thanks: 1) the University of Chicago Center in Paris staff for welcoming the FACCTS Review Committee and providing logistic support for its various meetings; and 2) the organizers of the “Quantum” and “Material Science” colloquia in Paris—in particular Juan de Pablo, David Awschalom, and Matthew Tirrell—for providing the intellectual framework for our “FACCTS in Paris” gathering and for cost-sharing and resource-sharing with us in a number of areas.

Summary of FACCTS Awardees (2022)

Project Title	UChicago PI	Department	Division or Lab	French Partner		Award Amount
HIV Pre-Exposure Prophylaxis Access Retention and Education Research (HIV PrEP-ARER)	Aniruddha Hazra	Medicine	BSD	Jean-Michel Molina	University Paris Diderot, Assistance Publique Hôpitaux de Paris	\$25,000
Water Decontamination Using a Plasma-in-Liquid Technique : Application to PFAS Treatment (WIPE-PFAS)	Junhong Chen	PME	PME	Arlette Vega Gonzalez	Laboratoire des Sciences des Procédés et des Matériaux	\$30,000
Novel Rare-Earth-ion Doped Thin Film Crystals via Hybrid Epitaxial Growth	Tian Zhong	PME	PME	Alexandre Tallaire	ENSCP, Chimie Paristech	\$12,500
The Total Synthesis of Sclerocitrin as Fueled by Novel Radical Cyclization Cascades	Scott Snyder	Chemistry	PSD	Stephane Quideau	University of Bordeaux	\$17,000
Single-Chain Magnets Encapsulated in Molecular Frameworks	John Anderson	Chemistry	PSD	Ie-Rang Jeon	Universite de Rennes	\$25,000
Large-Scale Structure Simulations for Next Generation Cosmological Modeling	Chihway Chang	Astronomy & Astrophysics	PSD	Francois Lanusse	CEA Saclay	\$24,750
Foundational Models and Efficient Algorithms for Scheduling with Variable Capacity Resources	Andrew Chien	Computer Science	PSD	Yves Robert	ENS-Lyon	\$22,500
Novel Quantum Phenomena in Ultracold Atoms with Tunable Two- and Three-Body Interactions	Cheng Chin	Physics	PSD	Thomas Bourdel	Laboratoire Charles Fabry, Institut d'Optique	\$24,000

Project Title	UChicago PI	Department	Division or Lab	French Partner		Award Amount
Detecting, Explaining and Mitigating Model Drift in Operational Networks	Nick Feamster	Computer Science	PSD	Francesco Bronzino	University of Savoie Mont Blanc	\$15,000
Holography in Quantum Gravity	David Kutasov	Physics	PSD	Monica Guica	Institut de Physique Theorique, CEA/Paris-Saclay	\$24,000
DAMIC-M: Searching for Dark Matter under the French Alps	Paolo Privitera	Astronomy & Astrophysics	PSD	Olivier Deligny	Institut Juliot-Curie (IJCLab)	\$20,000
QBRICKS for Quantum Compilation	Robert Rand	Computer Science	PSD	Benoit Valiron	Université Paris Saclay, CentraleSupélec	\$20,000
The Higgs Boson Mass from Cosmology, and its Experimental Tests	Liantao Wang	Physics	PSD	Raffaele D'Agnolo	Universite Paris-Saclay, (CEA)	\$24,300
Developing Next Generation Tools for Large-scale Computational Science	Jonathan Ozik	Computational Science	ANL	Mickael Binois	Université Côte d'Azur, INRIA Sophia Antipolis	\$39,960
Nano X-ILIGHT: Nano X-ray to Image Bacterial Cells at the Intracellular Level and Grasp Hg Transformations in the Environment	Si Chen	Advanced Photon Source	ANL	Marie-Pierre Isaure	University of Pau	\$39,500
Building and Validating the Computing Model for the DUNEVertical Drift Detector	Kenneth Herner	DUNE	Fermilab	Elisabetta Pennacchio	CERN	\$20,000

TOTAL

\$396,010

FCC, CONFRÈRES, FRANCIS W. PARKER SCHOOL PARTNERSHIP

This article originally appeared on the Francis Parker web site and is reprinted with permission from Francis W. Parkers School

Members of the Upper School Science Department traveled to the University of Chicago Center in Paris as part of the 2022 France And Chicago Collaborating in The Sciences (FACCTS) program, which seeks to foster a broad range of networks and productive partnerships between Chicago-based researchers and France-based colleagues and institutions.

Parker teachers Kara Schupp and Xiao Zhang attended the conference with Daniel Weissbluth MD and program benefactor and Parker parent Tem Horwitz, while teacher George Austin participated remotely. Prior to the event, the FACCTS committee sent detailed proposals for careful review.

During the conference, committee members from the “Chicago Team,” composed of University of Chicago faculty, took turns with those from the “French Team,” represented by members of the French education ministry and staff from the French Embassy in Washington DC and Chicago Consulate responsible for promoting scientific research and collaboration to present unique proposals for scientific projects competing to receive seed funding through the FACCTS program.

Participants listened to the committee’s discussions and evaluation of the proposals. After ranking the proposals, an additional \$100,000 in funding was dedicated to the four applicants. The experience to meet with the Committee and participate in the proposal review process provided those involved with a unique window on the funding process for scientific research. The four proposals will receive funding:



Above: Confrères, Francis Parker School faculty, representatives of the French Ministry of Foreign Affairs, and UChicago faculty and staff gather to celebrate the FACCTS-supported collaborations in 2022.

Opposite Page: Confrères (from left to right) Xiao Zhang, Daniel Weissbluth, and Kara Schupp.

- Daniel Weissbluth—HIV Pre-Exposure Prophylaxis Access Retention and Education Research (HIV PrEP-ARER)
- George Austin—Holography in Quantum Gravity
- Kara Schupp—Water Decontamination Using a Plasma-in-Liquid Technique: Application to PFAS Treatment (WIPE-PFAS)
- Xiao Zhang—Single-Chain Magnets Encapsulated in Molecular Frameworks

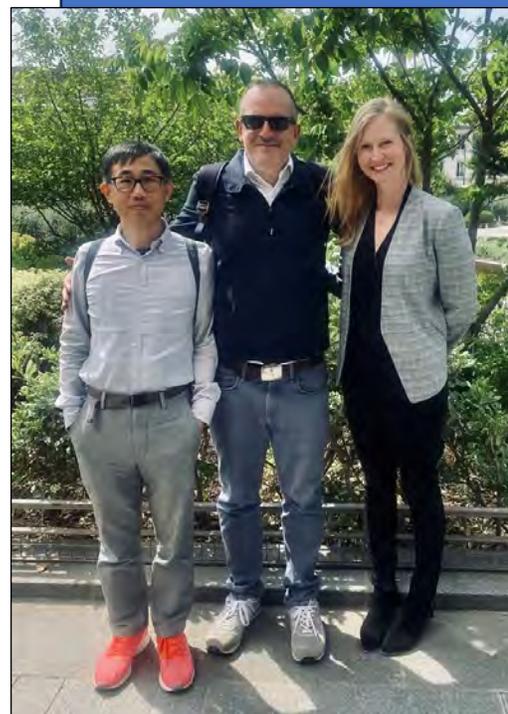
Zhang shared, “Through the connection with the FACCTS program, climate scientists Dr. Elizabeth Moyer and Dr. Sergey Khaykin presented their joint research and their journey becoming climate scientists to the students in the Climate Science elective at Parker last year. They gave two pieces of advice worth sharing with all students: “Don’t be afraid of getting involved in research as early as possible and be a team player.”

Austin offered, “Not only am I able to pursue a scientific passion that I have, the FACCTS program allows us to connect researchers with our students so they can transfer their knowledge directly to the students, which can spark a similar passion in them as well. This is what Clay Cordóva and Eric Perlmutter did regarding special relativity and causality for the students in my Modern Physics and Astronomy class last year.”

The conference location alternates between Paris and Chicago each year, with faculty members serving a two-year term to experience the conference locally as well as overseas. COVID disrupted this flow, but all welcomed the return to in-person gatherings for this annual event.

As a faculty member involved in the FACCTS program since the first year of Parker’s involvement, Bridget Lesinki said, “I attended five years ago, and what struck me the most was the collaborative nature of science. It was inspiring to see what scientists from both the United States and France were able to accomplish together. I loved visiting some of the scientists’ labs and learning firsthand about their research. As a science teacher, I was able to bring some of their exciting stories and research back to my classes. I enjoyed experiencing firsthand how scientific projects get funded.”

Parker is excited for future opportunities to connect the four funded projects with the school and Parker students. Past presentations by researchers not only showed students research topics of interest, but also valuable perspectives on research and scientific careers.



FINANCIAL SUMMARY

Revenue	Amount	Note
UNIVERSITY PARTNERSHIPS		
Unrestricted Support from Divisions & Schools ¹	\$52,000	Salary and Administration
Other University Partnerships	\$15,000	
Council on Advanced Studies	\$4,000	Workshop Expenses
Office of the Provost	\$30,000	Earmarked for FACCTS
Office of the Vice Provost of Research	\$15,000	Earmarked for FACCTS
Physical Sciences	\$25,000	Earmarked for FACCTS
Biological Sciences	\$25,000	Earmarked for FACCTS
Pritzker School of Molecular Engineering	\$20,000	Earmarked for FACCTS
Subtotal	\$186,000	
ENDOWMENT REVENUE²	\$155,225	Unrestricted
SUPPORT BEYOND THE UNIVERSITY		
Ministry of Foreign Affairs ³	\$20,000	Earmarked for FACCTS
National Laboratories ⁴	\$99,460	Earmarked for FACCTS
Institut des Amériques	\$1,000	Scholarly Programming
French University Partners ⁵	\$12,500	Earmarked for FACCTS
Support Council in the Sciences (<i>Confrères</i>)	\$104,000	Earmarked for FACCTS
French Ministry of Higher Education & Research ⁶	\$38,457	FACCTS & Student Mobility
Subtotal	\$275,417	
TOTAL REVENUE	\$616,642	

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¹ Contributions from the Divisions of the Humanities and Social Sciences, the Harris School, the Crown Family School, and the Divinity School

² FCC's endowment value as of December 31, 2022 was \$3,427,878

³ Includes funding for FACCTS (\$20,000) and various cultural programming initiatives (\$3000)

⁴ Support from Argonne National Laboratory and Fermilab Accelerator National Laboratory

⁵ Includes support from PSL University (FACCTS), Sciences Po (Student Mobility) and EHESS (Student Mobility)

⁶ Dollar equivalent of the 39500 euro grant received in September 2022

Expenditures	Amount
STUDENT MOBILITY	
François Furet Travel Grant Program	\$20,000
Institut des Amériques Collaboration	\$2,000
Subtotal	\$22,000
COLLABORATIONS IN THE SCIENCES	
FACCTS Program	\$396,010
Review Committee Travel and Program Expenses	\$9,600
Subtotal	\$405,610
COLLABORATIONS IN THE ARTS	
The Bridge	\$9,200
Champs Elysées Film Festival (French Section)	\$5,000
Subtotal	\$14,200
INITIATIVES IN THE HUMAN & SOCIAL SCIENCES	
Faculty Grants	\$15,000
Workshop on Modern France and the Francophone World	\$6,000
Institut des Amériques-driven scholarly activities	\$6,000
France Chicago Collection (with UChicago Press)	\$30,000
Subtotal	\$57,000
OUTREACH	
Confrères support initiatives	\$2,500
Partnerships with the French Consulate	\$7,500
Subtotal	\$10,000
ADMINISTRATIVE EXPENSES	
	\$52,000
Grand Total	\$560,810

APPENDIX 1: COLLABORATIONS SUPPORTED BY FACCTS

COLLABORATIONS IN THE PHYSICAL SCIENCES

The Total Synthesis of Sclerocitrin as Fueled by Novel Radical Cyclization Cascades

Chicago PI: Scott Snyder (Chemistry)
PI in France: Stéphane Quideau (University of Bordeaux)
FACCTS Award (1 Year):\$17,000

Project Summary: The total synthesis of natural products has long served as the principal driving force for discovering new reactions, testing the power of existing synthetic methods, and enabling biology and medicine. This proposal follows in that tradition by leveraging the respective expertise of the Snyder group (University of Chicago) and the Quideau group (University of Bordeaux) to explore an incredibly unique polyphenolic natural product: sclerocitrin. This compound is a brightly colored pigment found in several mushroom species (including some harvested near the Chernobyl disaster) which appears to have the ability to sequester metal ions. Structurally, its core results from the dimerization of two molecules of xerocomic acid via an unconfirmed route; we seek a potentially biomimetic synthesis of that domain via novel, radical-based bond forming cascades.

Single-Chain Magnets Encapsulated in Molecular Frameworks

Chicago PI: John Anderson (Chemistry)
PI in France: Ie-Rang Jeon (University of Rennes)
FACCTS Award (2 years):\$25,000

Project Summary: This proposal aims to synthesize and study a new class of single-chain magnetic materials stabilized within a molecular superstructure. Single-chain magnets have been targeted as microscopic memory storage units to enhance memory storage density. While significant advances have been made in this area, controlling chain-tochain interactions is still a major challenge. The novel approach which we propose here is to rigidly separate these chains by embedding them into an extended molecular framework. This approach will give us careful control of both intrachain and interchain interactions that will allow us to realize bulk magnetic phenomena at technologically relevant temperatures. In so doing, we will generate new materials that enable the use of singlechain magnets in several applications.

This collaboration is supported by Xiao Zhang through the Horwitz-Barreto Charitable Fund.

Large-Scale Structure Simulations for Next Generation Cosmological Modeling

Chicago PI: Chihway Chang (Astronomy & Astrophysics)
PI in France: François Lanusse (CEA-Saclay)
FACCTS Award (2 years):\$24,750

Project Summary: Cosmology from large-scale structure has entered an era where numerical simulations are critical in achieving accurate modeling of the observed Universe. This proposal will seed a long-term collaboration between PIs Chang (UChicago) and Lanusse (CNRS) on exploring a new approach to cosmology analyses based on fast and physically-motivated simulations aided by state-of-the-art Artificial Intelligence (AI)/Machine Learning (ML) technologies. The collaboration will capitalize on the expertise of the two groups (data analysis on the UChicago end and AI/ML on the CNRS end). We propose a visitor program between the two institutions over two years to launch and collaborate on one specific project, as well as a small workshop to engage the larger community on this topic.

Detecting, Explaining and Mitigating Model Drift in Operational Networks

Chicago PI: Nicholas Feamster (Computer Science)
PI in France: Francesco Bronzino (University of Savoie Mont Blanc)
FACCTS Award (2 years): \$15,000

Project Summary: Network operators rely on machine learning models for many tasks, including detecting anomalies, inferring application performance, and forecasting demand. Unfortunately, model accuracy can degrade due to model drift, whereby the relationship between the features and the target prediction changes, due to software upgrades, seasonality, changes in user behavior, etc. Mitigating concept drift is thus an essential part of operationalizing machine learning models. Yet, drift has not been extensively explored in networking—or regression models in general. Simple approaches, such frequent retraining can actually degrade model accuracy. Our preliminary work involved mitigating drift in a cellular network in the US. Our proposed work will extend these models to more network management tasks, and evaluate drift detection frameworks in networks in both the United States and France.

Foundational Models and Efficient Algorithms for Scheduling with Variable Capacity Resources

Chicago PI: Andrew Chien (Computer Science)
PI in France: Yves Robert (INRIA, ENS-Lyon)
FACCTS Award (2 years): \$22,500

Project Summary: The advent of anthropomorphic climate change and growing power loads of cloud computing (2% to 10% globally) creates new challenges. For society to continue digitalizing, we must reduce the cloud's environmental damage. We seek to make datacenter consumption synergistic with renewable power. This produces a new problem -- scheduling computing jobs and datacenters for variable capacity (hourly, even seasonal basis). This new scheduling challenge that focuses on variation. We will study statistical models for variation based on study of renewable power variation, and explore scheduling approaches that balance resource capacity/throughput with responsiveness to the variation of the power grid. We will validate approaches using industrial cloud workloads. These approaches will create a sound, systematic theory of scheduling for variable capacity resources.

Novel Quantum Phenomena in Ultracold Atoms with Tunable Two- and Three-Body Interactions

Chicago PI: Cheng Chin (Physics)
PI in France: Thomas Bourdel (Institut d'Optiques)
FACCTS Award (2 years): \$24,000

Project Summary: The objective of our collaboration is to explore novel quantum phenomena based on laser cooled atoms with tunable two- and three-body interactions. We will study changes in the thermodynamical properties of atoms that condense at ultralow temperatures and their excitations (such as solitons) in the presence of programmable interactions, a novel feature of the cold atoms. One particular quantum object we will investigate collaboratively is the quantum droplets, i.e., self-confining gases “bubbles”. Our two groups have great interest in sharing various experimental techniques and in discussions to detect such quantum objects. Annual mutual visits from the students and the PIs as well as regular online joint group meetings are planned.

Holography in Quantum Gravity

Chicago PI: David Kutasov (Physics)
PI in France: Monica Guica (CEA-Saclay)
FACCTS Award (2 years): \$24,000

Project Summary: Quantum Field Theory (QFT) plays a central role in physics. In particular, it provides the framework for our description of nature, from elementary particle physics, to condensed matter and early universe cosmology. It is also closely related to string theory, e.g. in the context of the duality between QFT's that are asymptotically scale invariant at short distances, and string theory in certain backgrounds that are known as asymptotically Anti-de-Sitter spacetimes. There are many indications that this duality can be extended beyond the above set. Such an extension is expected to play an important role in field theory, string theory and gravity. The goal of the collaborative project we propose is to use new ideas that appeared in the last few years to explore it.

This collaboration is supported by George Austin through the Horwitz-Barreto Charitable Fund.

DAMIC-M: Searching for Dark Matter under the French Alps

Chicago PI: Paolo Privitera (Astronomy & Astrophysics)
PI in France: Olivier Deligny (IJCLab)
FACCTS Award (2 years): \$20,000

Project Summary: Astrophysical and cosmological observations establish the presence of a dark (non-luminous) matter in the universe five times more abundant than usual atomic matter. Its nature is one of the most fundamental questions in science. DAMIC-M (Dark Matter in CCDs at Modane) is a novel experiment using charged-coupled devices (CCDs) to search for dark matter particles with unprecedented low energy threshold and spatial resolution. FACCTS will establish a collaboration between IJCLab, a major research laboratory in France, and UChicago to develop the data acquisition system of the experiment and perform the first search for dark matter particles with innovative data analysis methods. This collaboration is expected to positively impact the prospects for a much larger experiment currently in the R&D stage.

QBRICKS for Quantum Compilation

Chicago PI: Robert Rand (Computer Science)
PI in France: Benoit Valiron (Université de Paris Saclay)
FACCTS Award (2 years): \$20,000

Project Summary: Quantum computing recently entered the noisy intermediate-scale quantum (NISQ) era. The quantum devices that exist are noisy and quite limited: They can only run small programs and those executions are error-prone. For the foreseeable future, compilation will play a key role in enabling quantum computing by shrinking quantum programs to a manageable size. VOQC was the first verified quantum compiler, meaning that it significantly reduced the size of quantum programs while guaranteeing that the meaning of the program was unchanged. We plan to use the QBRICKS verification tool to build an even more powerful compiler. QBRICKS's automation will allow us to discover and verify more powerful optimizations than we have in VOQC, while matching VOQC's correctness guarantees.

The Higgs Boson Mass from Cosmology and its Experimental Tests

Chicago PI:Liantao Wang (Physics)
PI in France: Raffaele D’Agnolo (University of Paris Saclay)
FACCTS Award (2 years):\$24,300

Project Summary: The origin of the mass of the Higgs boson is one of the main puzzles in particle physics. Decades of efforts, based on tools such as symmetry and strong dynamics, have so far failed to yield a successful explanation. In this proposal, we pursue a different direction in which the origin of the Higgs mass is to be found in the early universe, and it is tightly connected to other important ingredients, such as dark energy. It will have unique signals in the laboratory which could be easily missed. We will focus on a detailed study of the prospects of testing this set of ideas at upcoming experiments, such as the Large Hadron collider and possible future colliders. We will also consider possible cosmological implications.

COLLABORATION IN THE BIOLOGICAL SCIENCES

HIV Pre-Exposure Prophylaxis Access Retention and Education Research (HIV PrEPARER)

Chicago PI: Aniruddha Hazra (Medicine)
Key Individual in France: Jean-Michel Molina (University of Paris Diderot)
FACCTS Award (1 year):\$25,000

Project Summary: HIV Pre-Exposure Prophylaxis Access Retention and Education Research (HIV PrEP-ARER) is a mixed-methods study of both general practitioners (GPs) and PrEP users aiming to capture the perspectives of PrEP prescription and management within the practice of primary care in Paris. GPs will be queried on their knowledge of PrEP, interest in PrEP prescription in their practice, the barriers they may face in implementing PrEP prescription and management. Similarly, we will also assess patients prescribed PrEP about their self-reported HIV risk, retention in PrEP services, preferences for receiving PrEP, and specific interest in receiving PrEP from a GP. Quantitative and qualitative data from this study will help inform a larger PrEP expansion study, PrEP in the City, which has been recently awarded to our French collaborators.

This collaboration is supported by Weissbluth Pediatrics.

COLLABORATIONS AT THE PRITZKER SCHOOL FOR MOLECULAR ENGINEERING

Water Decontamination using a Plasma-in-Liquid Technique : Application to PFAS Treatment (WIPE-PFAS)

Chicago PI:Junhong Chen (PME)
PI in France: Arlette Vega Gonzalez (CNRS)
FACCTS Award (2 years):\$30,000

Project Summary: Per- and poly-fluoroalkyl substances (PFAS) are anthropogenic chemicals that have been widely used in consumer and industrial products. Throughout their production, application, and waste disposal, these chemicals are discharged into the environment, where their persistence leads to major environmental and health issues. This joint research project aims to start a new collaboration between three major institutions, CNRS and UChicago/Argonne to tackle the grand PFAS challenge. The objective of the project is twofold: (i) to develop an efficient, environmentally friendly plasma-liquid interactions (PLI) technique for PFAS removal; (ii) to demonstrate a field-effect transistor (FET) sensing platform that is able to in-situ monitor various PFAS species during the oxidation process. A kinetic scheme will be proposed based on the identified by-products and the oxidation/reduction processes.

This collaboration is supported by Kara Schupp through the Horwitz-Barreto Charitable Fund.

Novel Rare-Earth-Ion Doped Thin Film Crystals via Hybrid Epitaxial Growth

Chicago PI: Tian Zhong (PME)
PI in France: Alexandre Tallaire (Université PSL)
FACCTS Award (2 years):\$25,000

Project Summary: Scalable creation of long-lived, controllable quantum bit remains a central theme in quantum engineering. Atoms embedded in solids such as rare-earth dopants are an appealing material as they feature 4f-intra-shell transitions that are effectively shielded from their crystalline surroundings by closed outer shells, touting hours long coherence times and narrow optical transitions. Yet, the lack of a wafer-scale, bottom-up synthesis technique for rare-earth doped crystals severely limits their prospects as a building block of quantum information technology. Here we propose a collaborative effort between University of Chicago and Chimie ParisTech, two leading research groups in rare-earth nanomaterials, to pioneer a new wafer-scale technology of rare-earth ions doped epitaxial oxide films as a novel platform for emerging quantum science and applications.

This collaboration is supported in part by the Université PSL through a broader agreement linking the University of Chicago with Université PSL.

COLLABORATIONS AT ARGONNE NATIONAL LABORATORY

Developing Next Generation Tools for Large-Scale Computational Science

Chicago PI: Jonathan Ozik (Argonne National Laboratory)
PI in France: Mikael Binois (INRIA)
FACCTS Award (2 years):\$39,960

Project Summary: Computational models play an increasingly critical role in developing scientific insights. A central element in the computational model development and application workflow is running in silico experiments with the model, that is, model exploration (ME), in order to iteratively implement and understand its capabilities and apply it on problems of interest. However, as high-performance computing (HPC) resources become more powerful and ubiquitous, and computational models increase in complexity to exploit those advances, sophisticated statistical ME algorithms are needed to efficiently characterize the model behaviors. We thus seek to extend the complementary expertise of our France and Chicago-based research groups to further develop HPC-oriented Bayesian optimization algorithms and HPC workflow methods, and develop next generation tools for lowering barriers to large-scale ME approaches across scientific domains.

Nano X-ILIGHT: Nano X-Ray to Image Bacterial Cells at the Intracellular Level and Grasp Hg Transformations in the Environment

Chicago PI: Si Chen (Argonne National Laboratory)
PI in France: Marie-Pierre Isaure (University of Pau)
FACCTS Award (2 years):\$39,500

Project Summary: Mercury (Hg) is one of the most concerning contaminants on Earth, and toxic methylmercury is mainly produced by bacteria in the environment. Little is known about the cellular mechanisms involved in this process. Nano X-ILIGHT focuses on the development of a hard x-ray multi-modal approach to image bacterial cells and decipher the cascade of events leading to Hg methylation. We will optimize x-ray nanoprobe instrument and measurement strategies to investigate a model Hg methylating bacterial strain and its mutants deleted in relevant genes. The study will revolutionize the understanding of Hg transformation and will pave the way for studying other contaminants at the subcellular level. A Fulbright grant has been allocated to the French partner for a 6-month residence at ANL for this research.

COLLABORATION AT FERMILAB NATIONAL ACCELERATOR LABORATORY

Building and Validating the Computing Model for the DUNE Vertical Drift Detector

Chicago PI: Kenneth Herner (Fermilab)
PI in France: Elisabetta Pennacchio (IP2I de Lyon)
FACCTS Award (2 years): \$20,000

Project Summary: The DUNE Collaboration is migrating from a two-phase liquid argon time projection chamber (TPC) to a Vertical Drift (VD) detector design. This design incorporates offers considerable advantages in simplicity and cost. The basic units for a VD DUNE far detector module are being tested this year, and a VD module-zero prototype is envisaged to become operational by early 2023 as part of the ProtoDUNE program. We propose to leverage our considerable experience with the computing model in the ProtoDUNE single-phase and our experience with the existing ProtoDUNE dual-phase detector to create a sustainable, scalable computing model for the new VD detector that will ensure rapid analysis and validation of detector data from the critical upcoming commissioning phase to normal operations.

FACCTS THROUGH THE YEARS

Number of applications received (since 2008).....	311
Number of awards disbursed (since 2008)	186
Total FACCTS funding disbursed	\$2,946,217
Average amount of award.....	\$15,840
Number of PhD students who worked in partner labs	(at least) 150
Number of institutions in France engaged through FACCTS	87
Number of joint publications resulting from FACCTS-sponsored research.....	(at least) 331
Amount of federal funding subsequently secured	(at least) \$30,000,000

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** Confrères are members of FCC's Support Council in the Sciences. Their generous contributions have underwritten in part or in full the costs of four FACCTS-supported research collaborations in 2022.*

THE FRANCE CHICAGO CENTER

THE UNIVERSITY OF CHICAGO

1126 E. 59th St.
Chicago, IL 60637
<http://fcc.uchicago.edu>