

Darner Research Group Authorship Policy

1. To be considered a co-author, at least 3 of the following activities should be done:
 - a. Participate in investigation/experimental design,
 - b. Create teaching/learning materials/surveys/questionnaires/tasks in survey software for the specific purpose of data collection for the study,
 - c. Collect data (including recording, observations, conducting interviews, setting up data collection tools, survey development),
 - d. Prepare data for analysis (including deidentifying data, transcription of raw data, organizing data into usable formats, etc.)
 - e. Analyze data (including coding, statistical analysis, etc.),
 - f. Create figures/tables,
 - g. Interpret data considering existing literature/other findings.

Multiple people could be contributing to the manuscript by doing the same activity (e.g., two different people each create a figure for the paper). Exceptions to this guideline can be made through discussion among all potential authors. People that have contributed to the manuscript by providing only one or two of the key activities listed above should be included in the acknowledgements.

2. All co-authors must contribute to the development of the manuscript by participating in all stages of manuscript development as listed below:
 - a. contributing substantive prose (as determined by the authorship team considering length of article, number of authors, etc.),
 - b. providing critical feedback on drafts, and
 - c. reading and approving the final manuscript.
3. Authorship for reports, conference presentations, and posters, should include participation in at least 1 of the items in part 1 in addition to helping develop the poster or providing feedback on the poster/presentation.
4. Authorship order should be discussed early on and revisited periodically; we encourage authorship attribution statements when they are allowed by the journal.
5. Students have initial primary control (lead authorship) over manuscripts that are contained in the dissertation/thesis. The lead author (first author and the corresponding author) is expected to coordinate and manage the communication and activities needed to guide the manuscript forward, as well as take on duties associated with submission, revision, re-submission of the manuscript. If a student has not submitted a thesis/dissertation chapter for publication within 6 months after graduation, Rebekka Darner will become the corresponding author and will submit the chapter for publication, with the student remaining as first author.
6. Authors are encouraged to set up regular meetings to discuss timelines and progress of manuscript development.
7. Disputes about authorship should be taken to at least one of the following individuals: Rebekka Darner; the graduate coordinator; and/or an appropriate dissertation/thesis committee member for mediation. If an authorship dispute involves Rebekka Darner, the graduate coordinator should be brought into the conversation.
8. As ideas emerge from research projects that are tangential to the study's original questions, it is expected that all lab participants will be invited to participate in such discussions at lab meetings and be given the opportunity to participate in manuscript writing by completing at least 3 of the activities in Part 1 and all of the activities in Part 2. This may involve IRB protocol modification, so new research team members will have access to data.
9. All lab members are encouraged to publish their classroom/teaching materials that they develop that were not designed specifically for data collection in appropriate venues, such as practitioner journals (e.g.,

American Biology Teacher) and online databases of teaching materials (e.g., National Center for Case Study Teaching in Science [NCCSTS], MERLOT, Coursera). Research conducted using these materials must then cite these materials in manuscripts.

10. Acknowledgements should include funding source (e.g., “This project was supported by NSF DUE Award #....”), express gratitude toward participants, and acknowledge those who contributed to the manuscript by providing one or two of the key activities listed in item 1.