

Richard J. Abdill

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Education

- **University of Minnesota** **Minneapolis, Minn.**
○ *Ph.D. student, Bioinformatics and Computational Biology* *2018–present*
Supervisor: Dr. Ran Blekhman
- **University of Maryland** **College Park, Md.**
○ *B.A., Print Journalism* *2008–2011*

Publications

- 2019: Mangul S, Mosqueiro T, **Abdill RJ**, Duong D, Mitchell K, Sarwal V, Hill B, Brito J, Littman RJ, Statz B, Lam AKM, Dayama G, Grieneisen L, Martin LS, Flint J, Eskin E, Blekhman R. **Challenges and recommendations to improve installability and archival stability of omics computational tools.** *PLoS Biology* 17(6): e3000333. doi: 10.1371/journal.pbio.3000333.
- 2019: **Abdill RJ** & Blekhman R. **Rxivist.org: Sorting biology preprints using social media and readership metrics.** *PLoS Biology* 17(5): e3000269. doi: 10.1371/journal.pbio.3000269
- 2019: **Abdill RJ** & Blekhman R. **Tracking the popularity and outcomes of all bioRxiv preprints.** *eLife* 8:e45133. doi: 10.7554/eLife.45133

Conference proceedings

- 2019: Computational Genomics Summer Institute. Oral presentation: “The perilous geometry of compositional data.” Los Angeles, Calif., 15–19 July 2019.
- 2019: Great Lakes Bioinformatics Conference. Oral presentation: “Tracking the popularity and outcomes of all bioRxiv preprints.” Madison, Wisc., 19–22 May 2019.

Software and tools

- **Rxivist** – A web application that indexes all bioRxiv preprints and allows users to sort and filter them based on Twitter activity and download metrics. <https://rxivist.org>
- **PanLingua** – A web application leveraging Google machine-translation services to enable users to search and view bioRxiv preprints in any of 104 world languages. <https://panlingua.rxivist.org>
- **UMN OB-GYN Research Database** – Built a database (MS Access) and reporting tool (Python and Javascript) for the University of Minnesota Medical School to track publications, grants and projects in the Department of Obstetrics, Gynecology and Women’s Health.
- **DADA2 Docker image** – A publicly available Docker image to help users process amplicon data with the R tool “DADA2.” <https://hub.docker.com/r/blekhmanlab/dada2>

Service and outreach

- **Peer review**, 2019: *eLife*, *Journal of Open Source Software*, *Nature Biotechnology* (supervised), *PLOS Computational Biology*, *Publications*.
- **Skype A Scientist**, 2019–present. Participant in a program that matches researchers with primary and secondary school classrooms to facilitate discussions about scientific research with kids and teens. Most recent session was a video call with an 11th grade science class in California.

Honors

- 2019: Award, best talk – Great Lakes Bioinformatics Conference, Madison, Wisc.
- 2019: Great Lakes Bioinformatics Conference Travel Fellowship

Professional associations

- **ASAPbio (Accelerating Science and Publication in Biology)**
Ambassador 2019–present
- **American Association for the Advancement of Science**
Member 2018–present
- **International Society for Computational Biology**
Member 2018–present

Previous employment

- **Minnesota Supercomputing Institute** **Minneapolis, Minn.**
System programmer 2018
- **Gannett/USA Today** **Tysons Corner, Va.; Minneapolis, Minn.**
Software engineer 2014–2015; 2016–2018
- **Target** **Minneapolis, Minn.**
Lead engineer 2015–2016
- **Amazon Web Services** **Herndon, Va.**
DevOps Consultant 2015