



Data Science Community Hour

Weekly in-depth technical discussions, presentations, tutorials, or meet-ups from the community of data science researchers (student, staff, or faculty) and educators. We envision having an extended dialogue with each week's presenters and a post-presentation discussion in break-out rooms among the community members.

Goal: Connect students and researchers interested in data science across campus.

- a. Build professional and peer networks for career development, academic success, and research collaborations.
- b. Share knowledge and have enriched discussions that sharpen the technical and presentation skills of members, as well as introduce different aspects of data science.

When: Thursdays 4:30–5:30 PM (weekly starting February 25 and continuing until May 12).

Inaugural presentation, Thursday, February 25th, 4:30 PM, join via [Zoom link](#)

“Julia for Data Science”—Prof. Toby Driscoll

Since its inception in 2009, Julia has rapidly grown into a successful language and ecosystem for technical computing. Julia is designed to let you write code that looks like Numpy or MATLAB while running at the speed of C or Fortran. There are mature Julia packages importing well-known functionality, including layers over Matplotlib and scikit-learn, and it's easy to call Python, R, MATLAB, or C directly from within Julia. But there are also outstanding native Julia tools for notebooks, data frames, images, graphics, statistics, differential equations, GPU computing, Bayesian inference, neural networks, and a unifying framework. I will introduce some of the major language features and then lead a walkthrough of a few straightforward data science workflows. Those who wish to run the walkthroughs on their own machines are advised to visit <https://github.com/tobydriscoll/UJDataSciTutorial> for some time-consuming setup steps.

Dr. Toby Driscoll is a Professor of Mathematical Sciences with a joint appointment in Biomedical Engineering at the University of Delaware. He is the author of four books, including *Learning MATLAB*, and researches scientific computing, mathematical software, and biomedical applications of computing and machine learning.



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Do you want to lead an in-depth discussion on a journal or conference paper central to your research? Would you like to present a talk (e.g., recent research results readied for a conference, an upcoming proposal defense, or want to practice your oral defense)? Do you have a tutorial (30–40 minutes) ready or soon to be ready to share with the community members? Do you have a topic you would like to learn more on through a tutorial? We are waiting to hear from you. Please reach out to us by emailing our current point of contact, Hassan Baker bakerh@udel.edu or fill out this [Google form](#).



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