

J-TERM 2019 Schedule

January 14th – 16th

Primers will be held in Oak Hall 117

Monday, January 14th, 2019

9:30am – 10:00am **Morning Breakfast/Coffee**

10:00am – 12:00pm **Storytelling & Science Communication**
Tim Miller, Digital Media & Design

Prof. Tim Miller discusses his work as an academic artist working in the field of science communication. Miller will share his unique background, discuss several of his ongoing projects, present a model for collaboration between art and science, and talk about the use of one of humanity's oldest art forms in the practice of science.

12:00pm – 1:30pm **Lunch**
Language Learning Research – From Academia to Industry
Anita Bowles, Rosetta Stone

What do you do after graduate school if you *don't* want to become a professor? How do you get from academia to a satisfying and impactful career in government or industry? What are the advantages and disadvantages of doing so? In this presentation, the presenter will discuss her experience in finding a career path outside of the tenure-track and describe some lessons learned along the way. She will also provide an overview of the types of research conducted by her current team at an educational technology company – Rosetta Stone. Her group evaluates the effectiveness of the company's products, analyzes learner experience and learning data to inform product development, provides targeted information on academic research findings to decision makers, and collaborates with external partners on language learning research. Brief examples of projects of each type will be provided. In addition, one or two recent studies and their findings and implications will be described in greater detail. Finally, related careers and job types within the company and the types of projects that might be available for interns will be discussed.

1:30pm – 4:00pm **Data Visualization Workshop**
Tim Miller, Digital Media & Design

This session will focus on the challenges and opportunities of data visualization. In this collaborative workshop, Prof. Miller will discuss how tools and techniques from the arts can be brought to bear on the problem of visualizing numerical information. Please come to the workshop with some recent data figures of your own, and be prepared to show or discuss the process of creating them.

Tuesday, January 15th, 2019

9:30am – 10:00

Morning Breakfast/Coffee

10:00am – 12:00pm

Git Workshop

Rachael Steiner, Psychological Sciences

This tutorial will introduce version control using Git. Git is a tool for keeping track of changes to files over time. Although it is most commonly used for programming, it can be extremely useful for tasks like writing and data analysis, and it promotes transparency that is valuable to open science. If you plan to follow along during the tutorial, please install Git (<https://git-scm.com/downloads> — If you are using Windows, please make sure to enable the command-line tools and support for MinTTY during the installation) and a text editor (e.g., Atom <https://atom.io> — not a word processor). The graphical tool GitKraken (<https://www.gitkraken.com/download>) is optional, but recommended. You are also encouraged to sign up for an account on GitHub (<https://github.com>) if you do not already have one, as part of the tutorial will focus on how to use GitHub to backup your projects or to collaborate with others.

12:00pm – 1:00pm

Lunch

1:00pm – 4:00pm

Neuroimaging Workshop

Emily Myers & Sahil Luthra, Psychological Sciences

This session serves as an introduction to the principles underlying functional MRI research. Basic things to consider when designing fMRI experiments will be covered, including timing, and task selection, single-subject and group-level analysis. Also, ways of taking advantage of fMRI data beyond the “plain vanilla” analysis stream will be discussed, including amplitude-modulated deconvolution, functional connectivity (PPI) analyses, and multi-voxel pattern analyses.

5:00pm – 5:30pm

Dinner

5:30pm – 7:00pm

Post-PhD Career Panel

Russell Richie, Postdoctoral Researcher at University of Pennsylvania

Dongnhu Truong, Postdoctoral Researcher at Yale University

Lauren Long, The Jackson Laboratory for Genomic Medicine

Amanda Rendall, Medical Science Liaison at Myriad Genetics

This panel serves to debate and discuss possible career choices following graduation from UConn. Hear from post-UConn PhD graduates as they share their story and experiences entering the job force.

Wednesday, January 16th, 2019

9:30am – 10:00am **Morning Breakfast/Coffee**

10:00am – 12:00pm **Structural Equation Modeling Workshop**
Betsy McCoach, Neag School of Education

This 2 hour workshop will cover fundamental concepts in structural equation modeling (SEM). Issues related to model specification, identification, and model fit will be covered. Also, latent variable modeling as an integration of path analysis and measurement (confirmatory factor analysis) models will be discussed. Given the short time frame and the wide variety of software packages available, it will not cover any software-specific instruction. However, everything discussed should help you to specify, fit, and interpret SEM models in your preferred software package. The workshop will be ended with a brief overview of pros and cons of different software packages.

12:00pm – 1:00pm **Lunch**
Greg Haddad, CT State Representative

1:00pm – 4:00pm **Python Workshop**
Russell Richie, Postdoctoral Researcher at University of Pennsylvania

Python is a popular general-purpose programming language used throughout academia, industry and government, in applications ranging from web development to data science. In this session, Python's data science capabilities will be introduced, showing you how to load a dataset, manipulate, summarize, and visualize it, and perform some basic statistical analysis. Some basic machine learning algorithms in Python may be covered if time permits. No prior programming experience is required. Attendees of this workshop are recommended to download Python 3.7 from <https://www.anaconda.com/download/> before the workshop starts.

4:00pm – 5:00pm **Closing Reception**
Cheese & Wine