

# James J Porter

web: jamesporter.me

mail: james@jamesporter.me

## Experience

---

- **Software Engineering Intern, 2014**

*Stripe* — San Francisco, California

- Developed internal tooling for correctness and performance testing of financial operations pipeline.

- **Software Developer, 2013-2014**

*Center for Data Intensive Science* — Chicago, Illinois

- Developed, deployed, and improved software infrastructure for doing bioinformatic analyses on cloud computing systems, primarily using Python.
- Refactored and dramatically improved reliability of subsystem for automated HPC cluster provisioning.
- Contributed to widely used open source projects including *bcbio-nextgen* and *IPython*.

- **Core Tutor, 2013-2014**

*University of Chicago Department of Computer Science* — Chicago, Illinois

- Tutored introductory computer science students in Racket, Java, Haskell, and Python.

- **Hacker School, 2013**

New York City, NY

hackerschool.com

- “a writer’s retreat for programmers.”
- Studied new programming languages, fields, techniques, etc.
- Contributed to a variety of open source projects.

- **Laboratory Teaching Assistant, 2012-2013**

*University of Chicago Biological Sciences Division* — Chicago, Illinois

- Instructed first-year students in experimental and computational molecular biology lab techniques.
- Managed a teaching laboratory of 14-20 students for four hours each week.
- Taught scientific programming with Matlab, taking students from zero knowledge to implementing models of genetic switches.

- **Undergraduate Research, 2011-2013**

*Ilaria Rebay Lab*, University of Chicago Ben May Department for Cancer Research — Chicago, Illinois

- Designed, implemented, and optimized simulations of genetic systems.
- Performed experiments aimed at understanding mechanisms of transcriptional repression in fruit flies.
- Facilitated collaboration between three research groups at two universities.

## Education

---

- **The University of Chicago** — Chicago, Illinois  
*Biological Sciences, Minor in Computer Science*, 2014  
GPA 3.98/4.0
- **Chardon High School** — Chardon, Ohio  
2010  
GPA 4.0/4.0

## Skills

---

### Computational

- Experience using and programming UNIX systems and associated tools.
- Competent user of (in approximate order of familiarity) Python, Ruby, Julia, C, Javascript, Lisp(s), shell scripting, Git, HTML/CSS, Matlab, Mathematica, various others.
- Comfortable programing in a wide variety of domains and styles.

### Laboratory

- Molecular biology (cloning, PCR, etc.)
- Microinjections
- Confocal fluorescence microscopy
- Care and breeding of *Drosophila melanogaster*

## Miscellaneous

---

- One of the primary organizers of JuliaCon, which took place in Chicago in June 2014, and was the first conference on the [Julia programming language](#).

## Honors and Awards

---

- Phi Beta Kappa Society, 2013
- Barry M. Goldwater Scholarship, 2013
- BSCD Fellowship, *University of Chicago Biological Sciences Division*, 2012
- Research Experiences for Undergraduates Fellowship, *Chicago Center for Systems Biology*, 2011
- National Merit Scholarship Finalist, 2010
- National AP Scholar, 2010
- Robert Byrd Scholarship, 2010
- Eagle Scout, *Boy Scouts of America, Troop 93*, 2009