

JAMES PORTER
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EDUCATION

The University of Chicago, Chicago, Illinois
Biological Sciences, Minor in Computer Science, expected 2014

- Cumulative GPA: 3.98/4.0

Chardon High School, Chardon, Ohio

- Cumulative GPA: 4.0/4.0

EXPERIENCE

- **Developer**, 2013-present
Open Science Data Cloud, Chicago, IL
 - Developed, deployed, and improved software infrastructure for doing bioinformatic analyses on cloud computing systems, primarily using Python.
- **Core Tutor**, 2013-present
University of Chicago Department of Computer Science, Chicago, IL
 - Tutored introductory computer science students (primarily in Racket and Java).
- **Hacker School**, 2013
New York City, NY; hackerschool.com
 - “a three-month, full-time school in New York for becoming a better programmer.”
 - Learned 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, IL
 - 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, Ben May Department for Cancer Research, University of Chicago, Chicago, IL
 - 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.

SKILLS

- **Computational:**
 - Experience using and programming UNIX systems and associated tools.
 - Competent user of (in approximate order of familiarity) Python (incl. NumPy/SciPy and Flask), C, Javascript, Lisp(s), shell scripting, Git, HTML/CSS, R, Matlab, Mathematica, various others.
 - Comfortable programming in a variety of domains and styles.
- **Laboratory:**
 - Molecular biology (cloning, PCR, etc.)
 - Microinjections
 - Confocal fluorescence microscopy
 - Care and breeding of *Drosophila melanogaster*

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
- Dean's List, *University of Chicago*, 2010–present
- National Merit Scholarship Finalist, 2010
- National AP Scholar, 2010
- Robert Byrd Scholarship, 2010
- Eagle Scout, *Boy Scouts of America—Troop 93*, 2009

POSTERS AND PRESENTATIONS

- Porter J., Boisclair Lachance J.F., Dinner A., and Rebay I. *Understanding the role of self association in transcriptional repression by Yan*. Poster session presented at: National Centers for Systems Biology Annual Meeting. 2012 July 19–20; Chicago, IL.