

**JAMES PORTER**  
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## EDUCATION

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**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

## HONORS AND AWARDS

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- Phi Beta Kappa Society, 2013
- Barry M. Goldwater Scholar, 2013
- Dean's List, *University of Chicago*, 2010–present
- BSCD Fellowship, *University of Chicago Biological Sciences Division*, 2012
- Research Experiences for Undergraduates Fellowship, *Chicago Center for Systems Biology*, 2011
- Eagle Scout, *Boy Scouts of America—Troop 93*, 2009

## SKILLS

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- **Computational:**
  - Languages: Python, Javascript, C, various Lisps, exposure to others.
  - Scientific programming: experience with bioinformatic data analysis in R; designing and implementing simulations of genetic systems using the Python scientific stack (IPython, NumPy, SciPy, matplotlib).
  - Web programming with Flask and Javascript.
  - Proficiency in Bash scripting and Unix systems/tools.
- **Laboratory:**
  - Molecular biology, microinjections, confocal microscopy, care and breeding of *Drosophila melanogaster*

## EXPERIENCE

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- **Hacker School**, summer 2013  
New York City NY
  - Learned new languages (Javascript, Clojure, Julia)
  - Studied web application development with Flask.
  - Contributed to various open source projects.
- **Undergraduate Research**, 2011–2013  
**Ilaria Rebay Lab**, Ben May Department for Cancer Research, University of Chicago, Chicago IL
  - Designed and carried out my own independent research program exploring transcriptional regulation
  - Integrated experimental data with computational modeling to come to new scientific insights.
  - Built simulations to study transcriptional dynamics during development.
  - Facilitated collaborations between three research groups at two universities.
- **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.
  - Taught a quarter of scientific programming with Matlab, taking students from no knowledge of programming to implementing models of genetic switches.

## POSTERS AND PRESENTATIONS

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- 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.