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

HONORS AND AWARDS

- 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

- **Computational:**
  - Languages: Python, C, R,, Mathematica, Matlab, Scheme, exposure to various others.
  - Scientific programming: experience with bioinformatic data analysis in R; designing and implementing simulations of genetic systems using Mathematica as well as the Python scientific programming stack (IPython, NumPy, SciPy, matplotlib, etc.).
  - Proficiency in Bash scripting and Unix systems/tools.
  - Basic familiarity with the construction and use of 3D printers.
- **Laboratory:**
  - Molecular biology, microinjections, confocal microscopy

EXPERIENCE

- **Undergraduate Research**, 2011-present
  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-present
  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

- 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.