

Gabe Schoenbach

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EDUCATION	The University of Chicago B.A., Mathematics <i>Minor:</i> Computer Science Dean's List, University Scholar Award, Odyssey Scholar	2016-2020
RESEARCH	<i>authors listed alphabetically by surname</i> PyEI: A Python package for ecological inference In Journal of Open Source Software , Vol. 6 Issue 64. Aug. 2021 with Amariah Becker and Karin Knudson Implementing partisan symmetry: Problems and paradoxes <i>Political Analysis</i> , forthcoming. [ArXiv]. with Daryl DeFord, Natasha Dhamankar, Moon Duchin, Varun Gupta, Mackenzie McPike, Ki Wan Sim	
PROJECTS	Models, Race, and the Law Yale Law Journal Forum , Vol. 130, pp. 744-797. Mar. 2021 Research Assistant to Moon Duchin and Douglas M. Spencer GerryChain <i>Contributor</i> GerryChain is an open-source Python Markov chain Monte Carlo sampler to generate ensembles of political districting plans. I'm focused on incorporating a geographical hierarchy into our samples and fine-tuning local search techniques. Enumerating Graph Partitions I'm interested in frontier-based search techniques to fully enumerate the space of graph partitions, which helps us better understand the districting state space and benchmark new Markov chains.	
TALKS	County-Aware Redistricting Algorithms UChicago Undergraduate Math Club Counting Graph Partitions MGCG Graph Algorithms Meeting EI Considerations MGCG Lab Meeting	October, 2021 February, 2021 November, 2020

LEADERSHIP

The Institute of Politics The University of Chicago
Speaker Series Chair, Student Advisory Board June 2019 – June 2020
Served as a liaison between students and IOP staff in regular meetings with senior IOP leadership including Director David Axelrod.

Undergraduate Admissions Office The University of Chicago
Shift Leader June 2017 – June 2020
Led trainings for undergraduate tour guides and worked with Admissions staff to help prospective college students through the application process.

SKILLS

Experienced in Python, Julia, LaTeX, shell scripting, and Git.

INTERESTS

NBA basketball (watching, not playing); Long-distance running (racing, not watching); blues piano (listening and playing); rock climbing