

JACKSON WALTERS

Arlington, VA | 703-915-6542 | jacksonwalters@gmail.com | <https://jacksonwalters.com>

WORK EXPERIENCE

Owner *Nov 2022 – Present*
Jackson Walters, LLC Arlington, VA

- Founded and operate company under which I provide private math tutoring and consulting services

QA Engineer *Oct 2020 – Jan 2021*
Power Auctions, LLC Washington, DC

- Resolved bugs and pushed fixes for combinatorial optimization phase of FCC Auction 107, the 5G wireless spectrum auction which closed at \$80bil
- Worked with operations researcher, PhD student, software engineer, executive, and QA team in close collaboration
- Wrote Python code to generate novel edge-case failures which were resolved to harden the system
- Co-wrote white paper with Keaton Ellis regarding floating point issues in Gurobi, an industrial optimization solver

Teaching Fellow *Aug 2013 – May 2019*
Boston University Boston, MA

- Ran five undergraduate math discussions per week with thirty students each for twelve semesters
- Instructor for four summer math courses with thirty-five students
- Awarded Teaching Fellow of the Year (Fall 2014)

Intern *Summer 2010, Winter 2011*
Argon ST (of Boeing) Fairfax, VA

- Assisted in collection of VLF (very low frequency) radio waves from sferics in the Cathedral Caverns of Alabama as part of a series of experiments for the DARPA program S-BUG

AFFILIATIONS

Member | American Mathematical Society *May 2019*

Founding Co-Organizer | Boston Graduate Math Colloquium *Sep 2017*

PROJECTS

wordchef.app | <https://github.com/jacksonwalters/wordchef> *May 2020 - Aug 2021*

orbit-space-homology | <https://github.com/jacksonwalters/orbit-space-homology> *May 2017 - Aug 2021*

scotus-v-public.com | <https://github.com/jacksonwalters/scotus-v-public> *June 2018 - Feb 2021*

COURSEWORK

Topics in Geometry | Mirror Symmetry *Spring 2016*

Topics in Physics | Mathematical Aspects of Quantum Field Theory *Spring 2016*

Topics in Number Theory | Elliptic and Modular Curves *Spring 2016*

PUBLICATIONS

Advances in Mathematics | Volume 386, 107799 *Aug 2021*

Annals of Statistics | Ann. Statist. 48(1): pp. 514-538 *Feb 2020*

EDUCATION

Boston University *May 2019*
Doctorate of Philosophy in Mathematics Boston, MA

The Data Incubator (of Pragmatic Institute) *Summer 2018*
Data Science Bootcamp Oakland, CA

Virginia Tech *May 2013*
Bachelor of Science in Mathematics, Physics Blacksburg, VA

Victoria University of Wellington *July 2011*
Study Abroad Wellington, NZ

SKILLS

- Python
- Java
- Javascript
- Ubuntu/Unix
- Mathematica
- MATLAB
- LaTeX
- SQL
- HTML
- PHP
- Machine Learning
- NLP