

# Graham Gordon

## CONTACT

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## EDUCATION

University of Washington, Seattle WA <i>Ph.D., Mathematics</i>	Spring 2020
Auburn University, Auburn AL <i>Bachelor of Science, Mathematics and Physics</i>	Spring 2015
Budapest Semesters in Mathematics, Budapest, Hungary <i>Honors Diploma</i>	Summer 2014

## EXPERIENCE

<b>Graduate Student Instructor</b> University of Washington, Seattle WA <ul style="list-style-type: none"><li>Lead instructor for a calculus course</li></ul>	Spring 2020
<b>Math and Physics Tutor</b> Berkeley CA <ul style="list-style-type: none"><li>Includes a 3-week period of in-class TA-ing at The Crowden School</li></ul>	Fall 2019 - Present
<b>Math Enrichment Instructor</b> Robinson Center for Young Scholars, Seattle WA <ul style="list-style-type: none"><li>Developed curriculum for and taught 3-week middle school summer course on combinatorics</li><li>Developed lesson plans for and taught weekend courses for elementary school students</li></ul>	Summer – Fall 2018
<b>Math Instructor</b> Freedom Education Project Puget Sound <ul style="list-style-type: none"><li>Taught and co-taught college-prep and college-level mathematics courses for women incarcerated at WCCW in Gig Harbor WA</li></ul>	2017 – 2018 Academic Year
<b>Graduate Teaching Assistant</b> University of Washington, Seattle WA <ul style="list-style-type: none"><li>Teaching assistant for various college math courses, including calculus, business calculus, linear algebra, and discrete math</li><li>Lead instructor for a linear algebra class</li></ul>	Fall 2015 - Spring 2019
<b>Undergraduate Teaching Assistant</b> Auburn University, Auburn AL	Fall 2013 - Spring 2015

## SCHOLARSHIPS and FELLOWSHIPS

Steve Mitchell Graduate Fellowship for the Love of Math: *University of Washington, 2018*  
Barry M. Goldwater Scholarship: *2014*  
Undergraduate Research Fellowship: *Auburn University, Summer 2013 - Spring 2014*

## HONORS and AWARDS

Dean's Medal: *Auburn University, Department of Mathematics and Statistics, Spring 2015*  
Andrew C. Connor Award: *Auburn University, Department of Mathematics and Statistics*

## PUBLICATIONS

*Cycle type factorizations in  $GL_n\mathbb{F}_q$* , <https://arxiv.org/abs/2001.10572>, submitted.

*Existence and hardness of conveyor belts*, with Molly Baird, Sara C. Billey, Erik D. Demaine, Martin L. Demaine, David Eppstein, Sándor Fekete, Sean Griffin, Joseph S. B. Mitchell, and Joshua P. Swanson, <https://arxiv.org/abs/1908.07668>, submitted.

*A classical analogue for adiabatic Stark splitting in non-hydrogenic atoms*, with F. Robicheaux, J. Phys. B: At. Mol. Opt. Phys. **46** (2013) 235003

## PRESENTATIONS

*Cycle type factorizations in  $GL_n\mathbb{F}_q$*

- University of Washington Combinatorics Seminar, May 2020
- UC Davis Algebra and Discrete Mathematics Seminar, March 2020
- UMASS Amherst Discrete Math Seminar, February 2020
- MIT-Harvard-MSR Combinatorics Seminar, February 2020
- UC Berkeley Combinatorics Seminar, February 2020

*Enumerating Factorizations in  $GL_n\mathbb{F}_q$*

- University of Minnesota Combinatorics Seminar, November 2018

*My favorite facts about  $GL_n\mathbb{F}_q$*

- University of Minnesota Student Combinatorics and Algebra Seminar, November 2018

*Power-Conserving Selective-Range Multilateration for Wireless Sensor Network Localization*

- MAA Southeast Section Meeting, March 2015
- Auburn University Research Week, April 2014

*A classical analogue for adiabatic Stark splitting in non-hydrogenic atoms*

- National Conference on Undergraduate Research, April 2014
- Society of Physics Students Zone 6 Conference, March 2014

## ACTIVITIES

Seattle Public Library Homework Help volunteer: *Fall 2018–Spring 2019*

Teaching Assistant Mentor, University of Washington, Department of Mathematics: *Fall 2018*

Graduate Student Representative, University of Washington, Department of Mathematics: *Fall 2017–Spring 2018*

William Lowell Putnam Mathematical Competition: *Participant, 2012–2014*

Auburn Mathematical Puzzle Challenge: *Volunteer, 2012–2014*