

Department of Mathematics
University of Illinois at Urbana-Champaign
Urbana-Champaign, IL, USA

E-mail: zomback2@illinois.edu
Webpage: <https://math.illinois.edu/directory/profile/zomback2>

Jenna Zomback

- EDUCATION**
- 2017 - Present *Ph.D. in Mathematics, University of Illinois at Urbana Champaign, IL*
Advisor: Anush Tserunyan
- 2017 - 2018 *M.S. in Mathematics, University of Illinois at Urbana Champaign, IL*
Advisor: Anush Tserunyan
- 2013 - 2017 *B.S. in Mathematics, State University of New York at Geneseo, NY*
Advisor: Jeff Johannes
Honors Thesis: *Colored Unlinking*
- SHORT TERM SCHOOLS AND PROGRAMS**
- 2020 Summer *UNCG Summer School: Ergodic theory with applications to continued fractions, UNC Greensboro, NC*
- 2017 Summer *Enhancing Diversity in Graduate Education (EDGE), Mills College, CA*
- 2016 Summer *UCLA Logic Center Summer School, UCLA, CA*
- 2016 Spring *Budapest Semesters in Mathematics, Budapest, HU*
- 2015 Summer *Pacific Undergraduate Research Experience in Mathematics, REU, University of Hawaii at Hilo, HI*
- PUBLICATIONS AND PREPRINTS**
- 2020 **A backward pointwise ergodic theorem and an application to the boundary action of free groups** with A. Tserunyan.
- 2019 **A combinatorial proof of the pointwise ergodic theorem for actions of amenable groups along Tempelman Følner sequences** with J. Boretsky. [[arXiv](#)]
- 2019 **Colored unlinking** with Natalie DuBois, Chris Eufemia, and Jeff Johannes. [[arXiv](#)]
- TALKS**
- Invited talks and seminars**
- 2020 April Caltech Logic Seminar, Tiling properties and pointwise ergodic theorems
- 2020 February South Eastern Logic Symposium (SEALS), University of Florida, Gainesville, A combinatorial proof of the pointwise ergodic theorem for actions of amenable groups along Tempelman Følner sequences
- Other talks and seminars**
- 2020 January UIUC Descriptive Set Theory Seminar, Invariant random subgroups
- 2019 July Workshop on groups, graphs, and measures, Boston College, Mercuriale de groupes et de relations
- 2019 May UIUC Descriptive Set Theory Seminar, A combinatorial proof of the pointwise ergodic theorem for actions of amenable groups along Tempelman Følner sequences
- 2019 April Graduate Student Conference in Logic (GSCL), University of Illinois at Chicago, A combinatorial proof of the pointwise ergodic theorem for actions of amenable groups along Tempelman Følner sequences
- 2019 February UIUC Model Theory and Descriptive Set Theory Seminar, The complexity of topological group isomorphism
- 2018 September UIUC Descriptive Set Theory Seminar, A combinatorial proof of the classical pointwise ergodic theorem
- 2017 April Undergraduate Talk, Geneseo Recognizing Excellence, Achievement, and Talent (GREAT) Day, SUNY Geneseo, Colored unlinking

2017 March Undergraduate Conference Talk, MAA Seaway section meeting, Rochester Institute of Technology, Colored unlinking

2017 February Undergraduate Poster Presentation, Nebraska Conference for Undergraduate Women in Mathematics, Colored unlinking

2016 October Undergraduate Conference Talk, MAA Seaway section meeting, SUNY Oswego, Colored unlinking

TEACHING
AND GRADING

UIUC

2019 Fall *Calculus II*, Head Teaching Assistant, Math 231, UIUC, IL

2019 Spring *Set Theory and Topology*, Grader, Math 432, UIUC, IL

2018 Fall *Calculus II*, Teaching Assistant, Math 231, UIUC, IL
On the list of teachers ranked as excellent by their students

2018 Summer *Counting Pigeons, and other problem solving techniques*, Instructor, Summer Illinois Math (SIM) Camp, UIUC, IL

2018 Spring *Calculus II*, Teaching Assistant, Math 231, UIUC, IL
On the list of teachers ranked as excellent by their students

2017 Fall *College Algebra*, Teaching Assistant, Math 112, UIUC, IL
On the list of teachers ranked as excellent by their students

Geneseo

2015 - 2017 *Math Learning Center*, Tutor, SUNY Geneseo, NY

2017 Spring *Introduction to Proofs*, Teaching Assistant, Math 239, SUNY Geneseo, NY

2016 Fall *Introduction to Proofs*, Teaching Assistant, Math 239, SUNY Geneseo, NY

2015 Fall *Introduction to Proofs*, Teaching Assistant, Math 239, SUNY Geneseo, NY

2015 Spring *Introduction to Proofs*, Teaching Assistant, Math 239, SUNY Geneseo, NY

FELLOWSHIPS
AND AWARDS

2020 Spring Ruth V. Shaff and Genevie I. Andrews Fellowship (UIUC)

2018 - 2019 Graduate Assistance in Areas of National Need (GAANN) Fellowship, granted at UIUC

2016 - 2017 SUNY Geneseo Presidential Scholar

2013 - 2017 SUNY Geneseo Edgar Fellow

2013 - 2017 SUNY Geneseo Scholar In Residence Fellowship

MEMBERSHIP

2017 Phi Beta Kappa Honor Society

2016 Pi Mu Epsilon Math Honor Society

SERVICE

2019 - 2020 UIUC Illinois Geometry Lab (IGL), Pairs of Disjoint Matchings, Team Leader

2018 - 2019 UIUC Association for Women in Mathematics (AWM), Vice President

2018 - 2019 UIUC Summer Illinois Math (SIM) Camp, Director

2017 - 2018 UIUC Summer Illinois Math (SIM) Camp, Assistant Program Coordinator

2016 - 2017 SUNY Geneseo Pursuing Rewards in the Study of Mathematics (PRISM), President

2015 - 2016 SUNY Geneseo Pursuing Rewards in the Study of Mathematics (PRISM), Secretary