

## Education

**Ph.D. in Mathematics**, In Progress, Bryn Mawr College, Bryn Mawr, Pennsylvania, USA

*Advisor:* Paul Melvin

**M.A. in Mathematics**, 2018, Bryn Mawr College, Bryn Mawr, Pennsylvania, USA

*Thesis title:* On fibering 3-manifolds

*Advisor:* Paul Melvin

**B.S. in Mathematics**, 2016, University of Wisconsin La Crosse, La Crosse, Wisconsin, USA

## Research Interests

Low-dimensional topology: Khovanov homology, Kirby calculus, knot concordance, knot traces, smooth 4-manifolds, spectral sequences.

## Publications

Robert F. Allen and Isaac M. Craig, *Multiplication operators on weighted Banach spaces of a tree*, Bulletin of the Korean Mathematical Society, 54:3 (2017), 747-761

## Teaching

**Instructor on Record**, Department of Mathematics, Bryn Mawr College, Spring 2020

*Courses:* Calculus I

**Teaching Assistant**, Department of Mathematics, Bryn Mawr College, 2016-Present

*Courses:* Abstract Algebra I & II, History of Math, Theory of Probability, Topology

**Tutor in Mathematics**, Murphy Learning Center, UW La Crosse, 2013-2016

*Courses:* College Algebra, Pre-calculus and Trigonometry, Calculus I, II, & III, Differential Equations

## Service

**Directed Reading Program (DRP)**, Bryn Mawr College

Co-founder (2019), Co-organizer (2019-Present), Mentor (2019-Present)

**Graduate Research Seminar**, Bryn Mawr College

Founder (2019), Organizer (2019-2020)

**Graduate Student Association (GSA)**, Bryn Mawr College

Co-chair (appointed 2017-2019), Department of Mathematics Representative (appointed 2019-2020),

GSA Representative to the Graduate Council of Bryn Mawr College (appointed 2017-2020)

**Professional Development Seminar**, Bryn Mawr College

Organizer, (2018 - 2019)

**AMS Graduate Student Chapter**, Bryn Mawr College

President (2018-Present)

**UW La Crosse Mathematics & Statistics Club**, UW La Crosse

President (appointed 2015-2016)

**FastTrack Remedial Mathematics Camp**, UW La Crosse

Tutor and staff (2015)

**Girls in Science Day Camp**, UW La Crosse

Teaching Assistant and Staff (2015)

**Awards & Honors**

Bryn Mawr Community Building Honor Roll, Bryn Mawr College, 2019  
Convocation Speaker Representing the GSA, Bryn Mawr College, 2018  
McPherson Graduate Award for Excellence, Bryn Mawr College, 2018  
Dept of Mathematics Outstanding Service Award, UW La Crosse, 2016  
SIAM Outstanding Efforts & Accomplishments in the Chapter, UW La Crosse, 2016

**Conferences & Workshops****Graduate Student Topology and Geometry Conference (GSTGC)\***

Contributing speaker, UI Urbana-Champaign, 2019

**MSRI Summer Graduate School on H-Principles\***

Participant, Tambara Institute, University of Tokyo, Jun-Jul 2018

**Summer 2018 Geometry/Topology RTG mini-conference**

Participant, Princeton University, 2018

**Topology Student Workshop\***

Participant, Georgia Institute of Technology, 2018

**Graduate Student Conference in Algebra, Geometry, & Topology**

Participant, Temple University, 2019

Participant, Temple University, 2018

**EPaDel MAA Meetings**

Contributing speaker, King's College, 2019

Contributing speaker, Temple University, 2018

**Joint Mathematics Meeting**

Contributing undergraduate speaker, Seattle, WA, 2016

\*Received partial or full external funding by program.

**Talks****The Ins and Outs of Eversions**

Research symposium talk, Bryn Mawr College, Apr 2019

**Knot Traces and Sliceness**

Contributed conference talk, UI Urbana-Champaign, Mar 2019

Contributed conference talk, King's College, Mar 2019

**An Introduction to Manifolds**

Invited speaker, UW La Crosse, Nov 2018

**On Fiberings 3-manifolds**

Master's defense, Bryn Mawr College, Apr 2018

Contributed conference talk, Temple University, Mar 2018

**Your Daily Dose of Fiber (Bundles)**

Research symposium talk, Bryn Mawr College, Apr 2018

**Brouwer Fixed Point Theorem**

Invited seminar speaker, Bryn Mawr, Feb 2017

Colloquium talk, UW La Crosse, Apr 2016

**Multiplication Operators on Weighted Banach Spaces of a Tree**

Symposium poster, UW La Crosse, Mar 2016

Conference talk, JMM Seattle, Jan 2016

Colloquium talk, UW La Crosse, Oct 2015

**On the Classification of Surfaces**

Colloquium talk, UW La Crosse, Dec 2015

# ISAAC SUNDBERG

icraig@brynmawr.edu – [imsundberg.github.io](https://imsundberg.github.io) – Park Science Building 436

Aug 2019

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## Research Seminars

### Philadelphia Area Contact Topology (PACT)

Participant, Bryn Mawr College, 2016-Present

### Philadelphia Area Topology Contact/Hyperbolic (PATCH)

Participant, Bryn Mawr College, Haverford College, Temple University, University of Pennsylvania, 2016-Present

## References

**Paul Melvin** (Advisor), [pmelvin@brynmawr.edu](mailto:pmelvin@brynmawr.edu)

**Lisa Traynor**, [ltraynor@brynmawr.edu](mailto:ltraynor@brynmawr.edu)