

# Xing Gu

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## CONTACT INFORMATION

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## ACADEMIC EXPERIENCE

**University of Melbourne**, Melbourne, Victoria, Australia  
*Research Fellow*

**November 2017-**

**The University of Illinois at Chicago**, Chicago, Illinois, USA

*Teaching Assistant*

**January 2016 - June 2017.**

Duty includes teaching discussion sessions, office hours, proctoring exams, and grading.

*Resarch Assistant*

**January 2016 - December 2016.**

Duty includes assisting advisor with research related affairs.

*Teaching Assistant*

**August 2012 - December 2015.**

Duty includes teaching discussion sessions, office hours, proctoring exams, grading and leading lab sessions.

## RESEARCH INTERESTS

Algebraic topology, homotopy theory.

## EDUCATION

**University of Illinois at Chicago**, Chicago, Illinois, USA

Ph.D., Mathematics, June 2017

Ph.D. Candidate, Mathematics, May 2014

- Advisor: Brooke Shipley
- Co-advisor: Benjamin Antieau

**Nankai University**, Tianjin, China

M.S., Mathematics, June, 2013

Advisor: Xiangjun Wang

**Nankai University**, Tianjin, China

B.S., Mathematics, June, 2010

## PAPERS

X. Gu, *On the Cohomology of the Classifying Spaces of Projective Unitary Groups*, submitted, arXiv:1612.00506

X. Gu, *The Topological Period-Index Problem over 8-Complexes*, submitted, arXiv:1709.00787.

X. Gu *On Topological Brauer Classes over 8-Complexes with Periods Divisible by 4*, arXiv:1803.05100.

CONFERENCE TALKS *The Topological Period-Index Problem*, Topology in Australia and South Korea, April 26th, 2018, POSTECH, Pohang, South Korea.

*On the Cohomology of the Classifying space of  $PU_n$* , 1127th AMS Meeting (1127-55-18), April 2nd, 2017, Indiana University, Bloomington, IN, USA.

*On the Cohomology of the Classifying Spaces of Projective Unitary Groups*, Topological Approaches to Algebra and Arithmetic Geometry, September 2016, the University of Georgia, Athens, GA, USA. <http://torsor.github.io/taaag/>

SEMINAR TALKS

*The Topological Period-Index Problem over 8-Complexes* July 3rd, 2017, China Academy of Sciences, Beijing, China.

*On the Cohomology of  $\mathbf{B}PU_n$  and Its Application*, January 31st, 2017, University of Chicago, Chicago, IL, USA.

*On the Cohomology of the Classifying Spaces of Projective Unitary Groups*, December 18th, 2016, Nankai University, Tianjin, China.

*On the Characteristic Classes of  $PU_n$  and Its Application*, December 16th, 2016, China Academy of Sciences, Beijing, China/ December 12th, 2016, Capital Normal University, Beijing, China.

ORGANIZATION

(with Arik Wilbert and Huijun Yang) *Graduate Student Learning Seminar: Cohomology Operations and the Steenrod Algebra*, Feb. 16th, 2018 - May 25th, 2018. [http://www.arik-wilbert.de/steenrod\\_seminar/](http://www.arik-wilbert.de/steenrod_seminar/)