

Zhen Huan

CONTACT INFORMATION	School of Mathematics Sun Yat-sen University Xingangxi Road 135, Haizhu, Guangzhou, Guangdong, 510275, China	Email: huanzhen2016@gmail.com Webpage: https://huanzhen84.github.io/zhenhuan/
RESEARCH INTERESTS	Algebraic topology, algebraic geometry and mathematical physics.	
POSITION	Sun Yat-sen University , Guangzhou, China Research Associate, August 2017-present	
VISITING POSITION	Universität Duisburg-Essen , Essen, Germany Research Assistant, April 2018-July 2018. Supervisor: Marc N. Levine.	
EDUCATION	University of Illinois at Urbana-Champaign Ph.D. in Mathematics, May 2017 ¹ <ul style="list-style-type: none">• Dissertation Defense Date: May 5th 2016• Dissertation Title: Quasi-Elliptic Cohomology• Advisor: Charles Rezk Indiana University Bloomington M.A. in Mathematics, October 2009 ² Peking University B.A. in Mathematics, May 2006 <ul style="list-style-type: none">• Thesis Title: Morse Theory and Bott Periodicity• Advisor: Houhong Fan	
PUBLICATION	<ul style="list-style-type: none">• Zhen Huan, <i>Quasi-Elliptic Cohomology and its Power Operations</i>, J. Homotopy Relat. Struct. (2018). https://doi.org/10.1007/s40062-018-0201-y.• Zhen Huan, <i>Quasi-elliptic cohomology</i>, Thesis (Ph.D.)–University of Illinois at Urbana-Champaign. 2017. 290 pp. http://hdl.handle.net/2142/97268.	
PREPRINT	<ul style="list-style-type: none">• Zhen Huan, <i>Quasi-elliptic cohomology and its Spectra</i>, available at arXiv:1703.06562. Submitted for publication.• Zhen Huan, <i>Universal Finite Subgroup of Tate Curve</i>, available at arXiv:1708.08637.	
WORK IN PROGRESS	<ul style="list-style-type: none">• Zhen Huan and Nathaniel Stapleton, <i>Level Structures, Loop Spaces, and Morava E-theory</i>. In Preparation.• Zhen Huan, <i>A Survey of Quasi-Elliptic Cohomology</i>. In Preparation.• Zhen Huan, <i>Almost Global Homotopy Theory</i>. In Preparation.	

¹My PhD thesis is 290 pages long. After my defense, I revised the paper for one year to make it more readable and classy under Charles Rezk and Matthew Ando's advice.

²During the phase of doctoral research, my research interest switched to algebraic topology and I transferred to UIUC in 2010 whose algebraic topology group was much larger.

SELECTED TALKS	<ul style="list-style-type: none"> • AMS-CMS Special Session on Algebraic and Geometric Topology, Joint International Meeting, Fudan University, <i>Quasi-elliptic cohomology</i>, June 11-14, 2018. • Chinese Academy of Sciences Topology Seminar, <i>Quasi-elliptic cohomology</i>, March 29, 2018. • Peking University Geometry and Topology Seminar, <i>Quasi-elliptic cohomology</i>, November 30, 2017. • Southern University of Science and Technology Topology Seminar, <i>Quasi-elliptic cohomology</i>, November 14, 2017. • Poster Session, Schubert Calculus International Festival, <i>Quasi-elliptic cohomology</i>, November 9, 2017. • AMS Special Session on Homotopy Theory, <i>Quasi-elliptic cohomology</i>, November 5, 2017. • Nankai University Algebraic Topology Seminar, <i>Quasi-elliptic cohomology</i>, October 10, 2017. • Parallel Session, Conference "Homotopy theory: tools and applications", <i>Quasi-elliptic cohomology</i>, July 17, 2017. • Informal Session, Conference on invertible objects and duality in derived algebraic geometry and homotopy theory, the University of Regensburg, Germany, <i>Quasi-elliptic cohomology</i>, April 3, 2017. • AMS Special Session on Homotopy Theory, <i>Quasi-elliptic cohomology</i>, April 1, 2017. • AMS Special Session on Topology and Arithmetic, <i>Quasi-elliptic cohomology</i>, October 30, 2016. • University of Chicago Algebraic Topology Seminar, <i>Quasi-elliptic cohomology</i>, November 25 2014. • Northwestern University Algebraic Topology Seminar, <i>Quasi-elliptic cohomology</i>, November 24 2014.
TEACHING EXPERIENCE	<p>University of Illinois at Urbana-Champaign</p> <p>Main instructor of</p> <ul style="list-style-type: none"> • NetMath MATH 231-Calculus II, Summer 2016. • MATH 124-Finite Mathematics, Spring 2016. • MATH 124-Finite Mathematics, Fall 2015. • MATH 124-Finite Mathematics, Spring 2015. • MATH 119-Ideas in Geometry, Fall 2013. <p>Led discussion sessions for</p> <ul style="list-style-type: none"> • MATH 221-Calculus I, Fall 2016. • MATH 231-Calculus II, Fall 2012. • MATH 234-Calculus for Business I, Spring 2012. • MATH 231-Calculus II, Fall 2011.
FELLOWSHIP AND AWARDS	<ul style="list-style-type: none"> • James P. Williams Memorial Award in recognition of outstanding scholastic achievement in the first year of graduate studies, from Department of Mathematics, Indiana University, Bloomington, 2007.
SERVICE	<ul style="list-style-type: none"> • Co-organizer of the conference "International Workshop on Algebraic Topology" at Southern University of Science and Technology, June 6-9, 2018.
REFERENCES	<p><i>Doctoral Supervisor</i></p> <p>Charles Rezk, University of Illinois at Urbana-Champaign, rezk@math.uiuc.edu 1(217) 265-6309.</p>

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