Graduate College (MC 192) 606 University Hall 601 S Morgan St Chicago, IL 60607-7106

COMMITTEE RECOMMENDATION FORM

UIC GRADUATE
UNIVERSITY OF ILLINOIS COLLEGE

http://grad.uic.edu

Clear Form

Information should be type	ed online (exc	ept for sig	natures at	• •	-		
Name of Student					UIN_655326776		
For defense, type name exactly as it Mathe Student's Graduate Program (e.g. History)	will appear on thes ematics	is/dissertation ti	tle page		git ID from I-C m Code 20F	eard 'S	
Master's Thesis Defense* ○ Preliminary Exa	amination O	EDD Doctor	ate Project	Defense* O	Doctora	I Dissertation Defense* ⊙	
Anticipated date of exam or defense (mm/dd/yyyy	04/23/2020	Email	of Student	kquinn23@	uic.edu		
* Thesis, doctoral project or dissertation title (must Limits of Foliations in Quasi-Fuc			length inclu	ding spaces):			
REGULATORY ISSUES Complete questions (1) - (4) for Master's or	Doctoral Defer	ıse; complete	e only question (4) for Prelimi	nary Examination.	
1. Does the student's research involve human subjects? If yes, has the Institutional Review Board approved the p		Yes ☐ Yes ☐	No ☑ No ☐	1. Ap _l	proval #		
2. Does the student's research involve animals in any wall f yes, has the Animal Care Committee approved the pro		Yes ☐ Yes ☐	No ☑ No ☐	2. App	2. Approval #		
3. Does the student's research involve recombinant DNA If yes, has the Institutional Biosafety Committee approve		Yes ☐ Yes ☐	No ☑ No ☐	3. App	proval #		
4. Does the student have any financial, non-financial (including previous employment) affiliation, or romantic, sexual, or familial relationship with any Yes [member on the proposed committee outside of normal accepted academic activity, mentoring, and support? (If unsure a conflict exists, answer "Yes.") See policy at: http://grad.uic.edu/student-committee-conflict-interest-statement			No 🗹	4. If "Yes," attach a statement specifying the nature, length, and time period of the relationship, and rationale for having that member on the committee.			
Master's thesis defense Preliminary exam Professional doctorate project defense (EDD only) Dissertation defense **Outside member is defined as outside	Total Number Three Five*** e (EDD only) Three*** Five*** d as outside of the program, although soul membership (not necessarily tenured)		ne ree ne /o ugh some	Tenure Req One Two Not requ Two programs ma	Jired	Not required Recommended, but optiona Not required One mandatory	
We recommend that the following be app Name of Committee Memb David Dumas		mbers of th		partment of			
Chairperson (type name on line above)							
Daniel Groves			MSCS				
Julius Ross			MSCS				
Laura Schaposnik			MSCS				
Benson Farb		<u>_</u>	Dept.	of Mathem	atics, U.	Chicago	
Name of outside member** (type name on line curriculum vitae must be attached if not a men	above) nber of Grad Co	A -	Name of inst	partment (if UIC bitter)		•	
Advisor signature			Mas			May 2020	
Department head or director of graduate studies s	signature Print na	ame			Dat	e	
Approved: □							

Graduate College signature

Date

Professional preparation

1989 B.S., Cornell University (Summa cum Laude, Phi Beta Kappa, Kieval prize). 1994 PhD, Princeton University, advisor: W.P. Thurston.

Appointments: University of Chicago

2001-	Professor
1999-2001	Assoc. Prof. (tenured)
1996-99	Asst. Prof.
1994-96	L.E. Dickson Instructor

Selected awards and honors

Invited Speaker, International Congress of Mathematicians (Topology section), Seoul, 2014.

Plenary Speaker, Joint AMS-MAA National Meeting, Baltimore, January 2014.

Fellow of the AMS, inaugural class 2012.

Special seminar series on work at Institute for Advanced Studies, Princeton, Dec. 2019.

Named Lectures: Minerva Lectures (Princeton, 2021), Ritt Lectures (Columbia), Perry Lectures Series (EIU), Jankowski Lecture (Poland), Cantrell Lectures (UGA), BMS Lectures (Berlin), Kieval Lectures (Humboldt), Distinguished Lecture Series (Utah), Wolff Lecture (Rice), Myhill Lectures (Buffalo), Boston College Distinguished Lectures, Spring Lecture Series (Arkansas), 3-lecture sole plenary speaker at 29th Workshop in Geometric Topology (Oregon State), etc.

Faculty Award for Excellence in Graduate Teaching (university-wide), Univ. of Chicago, 2002.

Other: AMS plenary (one hour) lecture, Toronto, 2000; NSF Career Award, 2000-5; Sloan Foundation Fellowship, 1999-2001; NSF Postdoctoral Fellowship, 1994-6.

10 Publications

- 1. Representation Stability, *Proceedings of the International Congress of Mathematicians*, Seoul 2014 Vol. II, 1173–1196.
- 2. FI-modules and stability for representations of symmetric groups (with T. Church and
- J. Ellenberg), Duke Math. Jour., Vol. 164, No. 9, (2015), 1833–1910.
- 3. Representation theory and homological stability (with T. Church), Advances in Math., Vol. 245 (2013), pp. 250–314.
- 4. FI-modules over Noetherian rings (with T. Church, J. Ellenberg, and R. Nagpal), Geometry & Topology 18–5 (2014), 2951–2984.
- 5. Topology and arithmetic of resultants, II: the resultant=1 hypersurface (with J. Wolfson, appendix by C. Cazanave), *Algebraic Geometry*, vol. 4, no. 1, 2017, pp. 337–352.
- 6. (BOOK) A Primer on Mapping Class Groups (with D. Margalit), 439 pp., Princeton Math. Series, Vol. 49, Princeton Univ. Press, 2012.
- 7. Isometries, rigidity and universal covers (with S. Weinberger), Annals of Math, Vol. 186,

BIOGRAPHICAL SKETCH

No.3, p.915-940 (2008).

- 8. The intrinsic asymmetry and inhomogeneity of Teichmuller space (with S. Weinberger), *Duke Math. Journal*, Vol. 155, No. 1, 91–103 (2010).
- 9. Commensurations of $Out(F_n)$ (with Michael Handel), *Publ. Math. IHES.*, No. 105 (2007), 1–48.
- 10. Group actions and Helly's theorem , $Advances\ in\ Math,$ Vol. 222, Issue 5, 1574-1588 (2009).

Selected synergistic activities

PhD STUDENTS ADVISED (first job in parenthesis): Jennifer Taback (UC Berkeley), Ashley Reiter Ahlin (Vanderbilt, teaching), Dan Margalit (Utah), Kevin Wortman (Cornell/Yale), Angela Barnhill (Ohio State), Pallavi Dani (Univ. of Oklahoma), Karin Melnick (Yale), Steven Wang (Haverford), Alexandra Pettet (Stanford), Tullia Dymarz (Yale), Andy Putman (MIT), Anne Thomas (Cornell), Matt Day (Caltech), Justin Malestein (Temple), Hanna Bennet (Michigan), Khalid Bou-Rabee (Michigan), Jan Essert (joint w/ L. Kramer), Asaf Hadari (Yale), Tom Church (Stanford), Spencer Dowdall (UIUC), Tam Nguyen (Ohio State), Rita Jimenez Rolland (Northeastern), Kathryn Mann (Berkeley), Daniel Studenmund (Utah), Jennifer Wilson (Stanford), Wouter van Limbeek (Michigan), Bena Tshishiku (Harvard), Nicholas Salter (Harvard), Andrew Geng (industry), Weiyan Chen (Minnesota), Victoria Akin (Duke), Kevin Casto (UBC), Lei Chen (Caltech), Oishee Banerjee (Bonn), Nir Gadish (MIT). CURRENT: Reid Harris, Ben O'Connor, Claudio Gonzales, Ronno Das, Nat Mayer, Adan Pedrano, Ishan Banerjee, Soohyun Park, Chloe Avery.

SENIOR SCIENTIST for NSF Postdocs: K. Whyte, C. Connell, C. Hruska, P. Storm, N. Broaddus, B. Schmidt, D. McReynolds, A. Walker, A. Zimmer, M. Bergeron (current), N. Harman (current). P. Tosteson (current), Trevor Hyde (starting Fall 2020).

OTHER: Created/ran summer program for minority students (2010-present); AMS Comm. on Comm. (2012-16), Satter Prize comm. (2014-present, chair); Blumenthal Prize Comm.; Public Lectures; Athens GA, Humboldt CA, Edinburgh, Berlin; Chair, Diversity Committee of the Phys. Sciences Division at Univ. of Chicago (2010–16); Women in Science Committee, University of Chicago (2007-16); AMS Committee on Disabilities (2008–2011), AMS Committee on Meetings and Conferences (2010-2012).

EDITORIAL BOARDS: Geometry and Topology (2002–); Journal of Topology and Analysis (2009–); Journal of Homotopy Theory and Related Structures (2012–); New York Journal of Mathematics (2011–18); Chicago Lectures in Mathematics (2000–); Managing editor (with R. Zimmer), Geometriae Dedicata (1999-2004, honorary editor 2004–).