Jordan Kostiuk | Curriculum Vitae

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Academic Positions

Lecturer **Brown University**
Department of Mathematics *July 2021–Present*

Tamarkin Assistant Professor **Brown University**
Department of Mathematics *July 2018–June 2021*

Education

Ph.D. in Mathematics **University of Alberta**
Thesis: "Geometric Variations of Local Systems" *2013–2018*
Supervisor: Charles Doran

M.Sc. in Mathematics **University of Alberta**
Thesis: "Heegner Points, Hilbert's Twelfth Problem, *2011–2013*
and the Birch and Swinnerton-Dyer Conjecture"
Supervisor: Charles Doran

B.Sc. Honors in Mathematics **University of Alberta**
Graduated with distinction *2007–2011*
Participated in Math in Moscow Program (Fall 2009)

Teaching Experience

Lecturer **Brown University**
Math 1001: The Art of Writing Mathematics *2021–Present*
Math 0520: Linear Algebra
Math 0190: Single Variable Calculus for Engineers

Tamarkin Assistant Professor **Brown University**
Math 1530: Abstract Algebra (Summer 2021) *2018–2021*
Math 0520: Linear Algebra
Math 1010: Intro to Real Analysis
Math 0190: Single Variable Calculus for Engineers
Math 0200: Multivariable Calculus for Engineers
Math 0420: Introduction to Number Theory
Math 0180: Multivariable Calculus

Graduate Student Instructor	**University of Alberta**
Math 228: Ring Theory	*2014–2018*
Math 215: Multivariable Calculus	
Math 101: Single Variable Calculus for Engineers	
Graduate Student TA	**University of Alberta**
Lab TA, Grader, Help-Centre Tutor	*2011–2017*

Teaching Development

Math Teaching Fellows Program	**Brown University**
Designer/Instructor	*2022*
Team Based Inquiry Learning Institute	**University of South Alabama**
Participant, received TBLC Fundamentals Certificate	*2022*
Seminar for Transformation Around Anti-Racist Teaching	**Brown University**
Participant	*2022*
Teaching Consultant Program	**Brown University**
Participant/Consultant	*2020*
Anchor Course Design Institute	**Brown University**
Three-time Facilitator	*2020*
Anchor Course Design Institute	**Brown University**
Participant	*2020*
Graduate & Postdoctoral Teaching Fellows Program	**Brown University**
Member of 2020 Cohort	*2020*
Project NExT	**MAA**
Member of Silver '19 Cohort	*2019-2020*
Problem Solving Course Design Institute	**Brown University**
Two Day Workshop	*2019*
Sheridan Teaching Seminar	**Brown University**
Completed Certificate I	*2019*
Graduate Teaching & Learning Program	**University of Alberta**
Completed Level 1	*2017*

Publications & Preprints: Scholarship of Teaching & Learning

1. *Fostering Math Identity and Self Assessment in a Proof-Based Math Course* J. Kostiuk, 2022, *submitted for peer-review on June 17, 2022*

Publications & Preprints: Mathematics

1. *Eigenvalues and Critical Groups of Adinkras* K. Iga, C. Klivans, J. Kostiuk, C. Yuen, arXiv:2202.02821, 2022, *submitted for peer-review*
2. *Degenerations, fibrations and higher rank Landau-Ginzburg models* C. Doran, J. Kostiuk, F. You, arXiv:2112.12891, 2021, *submitted for peer-review*
3. *Geometric Variations of Local Systems and Elliptic Surfaces* C. Doran, J. Kostiuk, arXiv:1911.00402,

2019, *to appear in Israel Journal of Mathematics*

4. *The Doran-Harder-Thompson Conjecture for Toric Complete Intersections* C.Doran, J. Kostiuk, F. You, arXiv:1910.11955, 2019, *submitted for peer-review*

5. *The Signed Monodromy Group of an Adinkra* E. Goins, K. Iga, J. Kostiuk, K. Stiffler, arXiv:1909.02609, 2019, accepted by *Annales de l'institut Henri Poincaré D* 2019

6. *Enumerative Gadget Phenomena for* $(4, 1)$ *Adinkras* I. Friend, J. Kostiuk, Y. Zhang, arXiv:1810.05545, 2018, accepted by *Annales de l'institut Henri Poincaré D* 2019.

7. *Geometric Variations of Local Systems* J. Kostiuk Ph.D. Thesis, University of Alberta *ProQuest Dissertations Publishing*, 2018

8. *Geometrization of* N-*Extended* 1-*Dimensional Supersymmetry Algebras II* C. Doran, K. Iga, J. Kostiuk, S. Méndez-Diez *Advances in Theoretical and Mathematical Physics*, 22(3): 565-613 2018.

9. *Geometrization of* N-*Extended* 1-*Dimensional Supersymmetry Algebras I* C. Doran, K. Iga, J. Kostiuk, G. Landweber, S. Méndez-Diez *Advances in Theoretical and Mathematical Physics*, 19(5):1909–1970, 2015

10. *Heegner Points, Hilbert's Twelfth Problem, and the Birch and Swinnerton-Dyer Conjecture* J. Kostiuk M.Sc Thesis, University of Alberta *ProQuest Dissertations Publishing*, 2013

Service

Math Teaching & Learning Seminar   **Brown University**
Organizer   *Spring 2022-Present*

Undergraduate Admissions   **Brown University**
Department Reader   *Spring 2021 & 2022*

Large Class Special Interest Group   **Brown University**
Organizer   *Fall 2020-Spring 2022*

Math Department Academic Year 2020-21 Planning Taskforce   **Brown University**
Member   *Summer 2020*

Diversity & Inclusion Committee   **Brown University**
Member   *2019-Present*

Horizons Seminar   **Brown University**
Organizer   *2019-Present*

Algebraic Geometry Seminar   **Brown University**
Organizer   *2019-2020*

Outreach & Mentoring

NSC Peer & Faculty Mentoring Program   **Brown University**
Mentor   *2021*

SPRINT Project—Henry Talbott   **Brown University**
Supervisor   *2020*

PSCDI Final Project—R. Chou, M. Lichtenberg, V. Silapachairueng   **Brown University**
Faculty Advisor   *2019*

University of Alberta Math Fair   **University of Alberta**
Facilitator   *2017*

○	**PIMS Undergraduate Workshop in Supersymmetry** *Teachers Assistant*	**University of British Columbia** *2016*
○	**Alberta Summer Mathematics Institute** *Facilitator*	**University of Alberta** *2011-2015*

Presentations

○	**Invited Presentation** *Reconnecting Communities by Dismantling Harmful Infrastructure*	**Sheridan Center** *November 2022*
○	**Science Friday** *Team Based Inquiry Learning*	**Sheridan Center** *April 2022*
○	**Sheridan Center Roundtable** *How I Grade*	**Sheridan Center** *June 2021*
○	**CMS Special Session** *Geometric Variations of Local Systems*	**Virtual CMS 2020 Meeting** *December 2020*
○	**ANTC Seminar** *Adinkras: Snapshots of Supersymmetry*	**Pomona College** *September 2019*
○	**Undergraduate Colloquium** *Adinkras: Snapshots of Supersymmetry*	**Brown University** *September 2019*
○	**Algebra & Combinatorics Day** *Intro to Adinkras*	**Brown University** *May 2019*
○	**Algebraic Geometry Seminar** *Geometric Variations of Local Systems*	**Brown University** *February 2019*
○	**Special Adinkra Session** *...and then there were graphs*	**Brown University** *November 2017*
○	**Mathematical Congress of the Americas** *Geometrization of Adinkras*	**CRM** *July 2017*
○	**Adinkra Math/Phys Hangout** *Geometrization of Adinkras*	**Brown University** *December 2016*
○	**PIMS Young Researchers Conference** *Geometrization of Adinkras*	**Edmonton, AB** *June 2016*
○	**PIMS Young Researchers Conference** *Heegner Points*	**Edmonton, AB** *May 2013*
○	**MCATA Conference** *What is ASMI?*	**Enoch, AB** *October 2013*

Grants, Scholarships & Awards

○ Zern Endowment Grant (Brown University)	2021
○ PSCDI Course Design Grant	2019
○ Graduate Student Teaching Award	2017
○ Queen Elizabeth II Graduate Scholarship	2012, 2017
○ Eoin L. Whitney Scholarship	2014, 2017

- Josephine Mitchell Prize   2016
- NSERC Canada Graduate Scholarship, Doctoral   2015-2017
- University of Alberta Doctoral Recruitment Scholarship   2013
- NSERC Canada Graduate Scholarship, Masters   2012-2013
- Walter H. Johns Graduate Fellowship   2012
- Josephine Mitchell Recruitment Scholarship   2012