

Lauren Cranton Heller

Avery 333
lheller2@unl.edu
845 514 0468
math.berkeley.edu/~lch/
US citizen

Department of Mathematics
University of Nebraska, Lincoln
210 Avery Hall
1144 T St.
Lincoln, NE 68588

PROFESSIONAL EXPERIENCE

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| CURRENT | University of Nebraska, Lincoln
<i>Postdoctoral Faculty</i> |
| 2024 | Mathematical Sciences Research Institute
<i>Huneke Endowed Postdoctoral Fellow</i> |
| 2023 | University of Nebraska, Lincoln
<i>Postdoctoral Faculty</i> |

EDUCATION AND TRAINING

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|------|---|
| 2023 | University of California, Berkeley
<i>PhD in mathematics</i>
advisor: David Eisenbud |
| 2017 | Wellesley College
<i>mathematics major, chemistry minor</i> |

RESEARCH INTERESTS

commutative algebra with geometric applications
multigraded regularity, linear resolutions, coordinate rings, toric varieties

PAPERS

- [1] Juliette Bruce, Lauren Cranton Heller, and Mahrud Sayrafi, *Bounds on Multigraded Regularity*, arXiv, 2022. arXiv:2208.11115 [math].
- [2] ———, *Characterizing Multigraded Regularity on Products of Projective Spaces*, arXiv, 2022. arXiv:2110.10705 [math].
- [3] L. Chen, A. Gibney, L. Heller, E. Kalashnikov, H. Larson, and W. Xu, *On an Equivalence of Divisors on $\overline{\text{M}}_{0,n}$ from Gromov-Witten Theory and Conformal Blocks*, Transform. Groups (August 2022) (en).
- [4] Lauren Cranton Heller, *Galois module structure for Artin-Schreier theory over bicyclic extensions* (2017) (en).
- [5] Lauren Cranton Heller, Karen Lange, and Bridget Schreiner, *Searching for categories: a conversation with Eugenia Cheng*, Math Horiz. 25 (2018), no. 3, 22–24. MR3756381

- [6] Lauren Cranton Heller, Jan Minac, Tung T. Nguyen, Andrew Schultz, and Nguyen Duy Tan, *Galois module structure of some elementary p -abelian extensions*, Israel J. Math. (2023), to appear. arXiv:2203.02604 [math].
- [7] Lauren Cranton Heller and Navid Nemati, *Linear truncations package for Macaulay2*, J. Softw. Algebra Geom. 12 (2022), no. 1, 11–16. MR4538333

INVITED TALKS

SEPTEMBER 2024	Algebraic and Arithmetic Geometry Seminar Washington University in St Louis
MAY 2024	Commutative Algebra Seminar Mathematical Sciences Research Institute
MAY 2024	AMS Spring Western Sectional Meeting San Francisco State University
MAY 2024	Algebra–Geometry–Combinatorics seminar San Francisco State University
MARCH 2024	Academic Sponsors Day Mathematical Sciences Research Institute
JANUARY 2024	Joint Mathematics Meetings San Francisco, CA
OCTOBER 2023	AMS Fall Central Sectional Meeting Creighton University
SEPTEMBER 2023	KUMUNU University of Missouri
OCTOBER 2022	Virtual Commutative Algebra Seminar University of Michigan, Ann Arbor
OCTOBER 2022	Valley Geometry Seminar University of Massachusetts, Amherst
OCTOBER 2022	Algebra and Algebraic Geometry Seminar McMaster University
OCTOBER 2022	Combinatorics Seminar Brown University
OCTOBER 2022	AMS Fall Eastern Sectional Meeting University of Massachusetts, Amherst
SEPTEMBER 2022	Algebra Seminar Rutgers University, New Brunswick
SEPTEMBER 2022	Route 81 Conference Queen’s University

SEPTEMBER 2022	AMS Fall Central Sectional Meeting University of Texas, El Paso
MAY 2022	Graduate Meeting on Combinatorial Commutative Algebra University of Minnesota, Minneapolis
MAY 2022	AMS Spring Western Sectional Meeting University of Denver
APRIL 2022	Virtual Joint Mathematics Meetings
FEBRUARY 2022	Algebra and Algebraic Geometry Seminar McMaster University
NOVEMBER 2021	Algebra and Geometry Seminar Queen's University
OCTOBER 2021	AMS Fall Central Sectional Meeting Creighton University
APRIL 2021	American Graduate Student Algebraic Geometry Seminar

AWARDS

2019	Outstanding Graduate Student Instructor <i>nomination for excellence in teaching by the department</i>
2016	Phi Beta Kappa <i>honor of being inducted as a junior</i>
2015	Malone Sophomore Prize <i>highest academic award at Wellesley College, given to a single student in each class year for academic excellence, citizenship, and accomplishment</i>

SERVICE

	AWM student chapter
	Noetherian Ring Berkeley's organization for gender minorities in math
	trainings for the prevention of sexual violence and harassment
	panels about summer math opportunities, women in math
	Equity and Inclusion Committee meetings
	reading group on racism in mathematics