Jian Liu | CV

School of Mathematical Sciences, University of Science and Technology of China
Hefei, 230026, Anhui Province, P.R.China

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Research Interests

My research interests are commutative algebras, derived categories and representation theory of finite dimensional algebras.

Education

- **University of Science and Technology of China**   **Hefei, China**
  Ph.D. in Mathematics. Advisor: Xiao-Wu Chen   *September 2016 –*
- **Northeast Normal University**   **Changchun, China**
  B.S. in Mathematics. Advisor: Xianhui Fu   *September 2012 – June 2016*

Research Experiences

- **University of Utah**   **Salt Lake City, USA**
  Joint Ph.D. student. Advisor: Srikanth Iyengar   *August 2019 – October 2020*

Publications

[2] Xiao-Wu Chen, Jian Liu, and Ren Wang, *Singular equivalences induced by bimodules and quadratic monomial algebras*, arXiv:200909365, submitted.

[1] Jian Liu and Josh Pollitz, *Duality and symmetry of complexity over complete intersections via exterior homology*, to appear in Proceedings of the American Mathematical Society.

Awards

- **Chinese Government Scholarship**   **University of Science and Technology of China**
  This award is to support graduate students to study abroad for one or two years.   *June 2019*
- **National Scholarship**   **Northeast Normal University**
  This is awarded annually in the University with few awards in each school.   *October 2014*

Teaching

Teaching Assistant, *University of Science and Technology of China*, Hefei, China.

- *Linear Algebra A2*, lecture: Xiao-Wu Chen, September 2018–January 2019.
- *Linear Algebra A1*, lecture: Xiao-Wu Chen, February 2018–June 2018.
- *Elements of Algebra*, lecture: Xiao-Wu Chen, September 2017–January 2018.
- *Complex Analysis*, lecture: Luo Luo, February 2017–June 2017.

Talks

Invited Talks

- **Duality of thick subcategories over complete intersections**
  Algebra Seminar, Northeast Normal University, November 6 2020.

Student Seminar

- **Virtually small complexes and complete intersections**
  Algebra Seminar, University of Science and Technology of China, December 2020.
- **Kahler differentials and the Hochschild cohomology ring**
  Algebra Seminar, University of Utah, October 13 2020.
- **Classifying thick subcategories of the singularity category over a hypersurface**
  Algebra Seminar, University of Utah, February 20 2020.
- **Support varieties and cohomology over complete intersections**
  Algebra Seminar, University of Utah, June 20 2020.
- **Local cohomology modules-various definitions**
  Algebra Seminar, University of Utah, June 20 2020.
- **Koszul duality patterns in representation theory**
  Algebra Seminar, University of Science and Technology of China, March 2019.
- **The singularity category over Gorenstein rings**
  Algebra Seminar, University of Science and Technology of China, January 2018.

Conferences Attended

- **DG Methods in Commutative Algebra and Representation Theory** **University of Utah**
  Participant via Zoom, Salt Lake City, Utah, USA *May 2 and 3, 2020*
- **The 20th National Conference on Representation theory of Algebras** **Nanjing University**
  Participant, Nanjing, Jiangsu Province, China. *June 21 2018 – June 26 2018*
- **The 19th National Conference on Representation theory of Algebras** **Huaqiao University**
  Participant, Quanzhou, Fujian Province, China. *November 08 2017 – November 12 2017*
- **Workshop on Groups and Algebras** **Southern University of Science and Technology**
  Participant, Shenzhen, Guangdong Province, China. *July 16 2017 – August 11 2017*