

8. **p -adic Hodge Theory and derived-Hodge-to-de-Rham spectral sequences.** Senior Thesis.
<https://github.com/tomsachen/thesis>
7. **Classifying Brieskorn Varieties and Brieskorn Manifolds.** Junior Thesis.
<https://github.com/tomsachen/juniorpaper>, presented at Princeton Riemann Surfaces seminar, May 2022
6. **Concordances of sums of alternating torus knots and their mirrors to L-space knots** (joint with Dan Geyer). Submitted. Presented at Joint Mathematics Meeting, April 2022.
[arXiv:2210.08055](https://arxiv.org/abs/2210.08055) and [poster](#).
5. **Generalizing Diagrams: Alternative Media and Mathematical Justification.** Junior Thesis.
<https://github.com/tomsachen/mathdiagrams>
4. **A Survey of Knot Concordance and L-space knots.** Junior Thesis.
<https://github.com/tomsachen/seminarpaper>
3. *Seifert Forms and Knot Concordance.* Undergraduate Knot Theory Seminar, Princeton University, November 2021.
2. *Classifying Finitely Presented Infinite Groups.* Joint Mathematics Meeting, AMS, April 2022.
1. *Geometric Aspects of Growth of Finitely Generated Groups* ([video](#)). REU Vir(tu)al Conference 2021, University of Connecticut, August 2021.