Publications and Preprints:

1. *On unification of colored annular $\mathfrak{sl}_2$ knot homology* (with A. Beliakova, M. Hogancamp, and K. Putyra), submitted, available at arXiv:2305.02977, 47 pages

2. *On the functoriality of sl(2) tangle homology* (with A. Beliakova, M. Hogancamp, and K. Putyra), Algebraic & Geometric Topology, **23** (2023) 1303–1361

3. *Odd annular Bar-Natan category and $\mathfrak{gl}(1|1)$* (with C. Necheles), submitted, available at arXiv:2206.01892, 83 pages

4. *An action of $\mathfrak{gl}(1|1)$ on odd annular Khovanov homology* (with J. E. Grigsby), Mathematical Research Letters, **27**(3) (2020) 711–742

5. *Quantum Link Homology via Trace Functor I* (with A. Beliakova and K. Putyra), Inventiones Mathematicae, **215**(2) (2019) 383–492

6. *Annular Khovanov-Lee homology, braids, and cobordisms* (with J. E. Grigsby and A. M. Licata), Pure and Applied Mathematics Quarterly, Special Issue in Honor of Simon Donaldson, **13**(3) (2017) 389–436 (published online on November 12, 2018)

7. *Annular Khovanov homology and knotted Schur-Weyl representations* (with J. E. Grigsby and A. M. Licata), Compositio Mathematica, **154**(3) (2018) 459–502

8. *An elementary fact about unlinked braid closures* (with J. E. Grigsby), AWM Springer Series, Advances in the Mathematical Sciences, (2016) 93–101

9. *A note on the combinatorics of lens space d-invariants* (with M. I. Doig), submitted, available at arXiv:1505.06970, updated in 2022, 10 pages

10. *Sutured Khovanov homology, Hochschild homology, and the Ozsváth-Szabó spectral sequence* (with D. Auroux and J. E. Grigsby), Transactions of the American Mathematical Society, **367**(10) (2015) 7103–7131

11. *Khovanov-Seidel quiver algebras and bordered Floer homology* (with D. Auroux and J. E. Grigsby), Selecta Mathematica, **20**(1) (2014) 1–55

12. *On Gradings in Khovanov homology and sutured Floer homology* (with J. E. Grigsby), Contemporary Mathematics **560** (2011) 111–128

13. *On the naturality of the spectral sequence from Khovanov to Heegaard Floer homology* (with J. E. Grigsby), International Mathematics Research Notices, **2010**(21) (2010) 4159–4210

14. *Khovanov homology, sutured Floer homology, and annular links* (with J. E. Grigsby), Algebraic & Geometric Topology, **10** (2010) 2009–2039

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17. *A remark on the topology of (n,n) Springer varieties,* arXiv:0908.2185

18. *Categorification of the colored Jones polynomial and Rasmussen invariant of links,* (with A. Beliakova), The Canadian Journal of Mathematics, **60** (2008) 1240–1266

19. *A spanning tree model for Khovanov homology,* Journal of Knot Theory and Its Ramifications, **17**(12) (2008) 1561–1574

20. *Contributions to Khovanov homology,* Ph.D. Thesis, University of Zurich (2007)

21. *Khovanov Homology and Conway Mutation,* arXiv:math/0301312