

Ewin Tang

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- EDUCATION**
- University of Washington** 2018 – Present
PhD in Computer Science
- University of Texas at Austin** 2014 – 2018
Bachelor of Science in Computer Science
Bachelor of Science in Pure Mathematics
Thesis: A quantum-inspired classical algorithm for recommendation systems
Advisor: Scott Aaronson
- PREPRINTS**
- András Gilyén, Seth Lloyd, and Ewin Tang. “Quantum-inspired low-rank stochastic regression with logarithmic dependence on the dimension”. In: *arXiv:1811.04909* (2018).
- Ewin Tang. “Quantum-inspired classical algorithms for principal component analysis and supervised clustering [note]”. In: *arXiv:1811.00414* (2018).
- Ewin Tang. “A quantum-inspired classical algorithm for recommendation systems”. In: *arXiv:1807.04271* (2018).
- Sunita Chepuri, Neeraja Kulkarni, Joseph Suk, and Ewin Tang. “Factorizations of k -nonnegative matrices”. In: *arXiv:1710.10867* (2017).
- PUBLICATIONS**
- David W Baker et al. “Development of optical probes for in vivo imaging of polarized macrophages during foreign body reactions”. In: *Acta Biomaterialia* 10.7 (2014), pp. 2945–2955.
- Ewin Tang et al. “In vivo imaging of infection using a bacteria-targeting optical nanoprobe”. In: *Journal of Biomedical Nanotechnology* 10.5 (2014), pp. 856–863.
- Yi-Ting Tsai et al. “Optical imaging of fibrin deposition to elucidate participation of mast cells in foreign body responses”. In: *Biomaterials* 35.7 (2014), pp. 2089–2096.
- Jun Zhou et al. “Real-time detection of implant-associated neutrophil responses using a formyl peptide receptor-targeting NIR nanoprobe”. In: *International Journal of Nanomedicine* 7 (2012), p. 2057.
- TALKS**
- “A classical toolkit for quantum-inspired machine learning algorithms”, Microsoft Research quantum seminar (invited) November 2018
- “A quantum-inspired classical algorithm for recommendation systems” [Tan18b]
- Microsoft Research AI seminar (invited) December 2018
 - UW Theory Seminar (invited) October 2018
 - Quantum Cluster, Simons Institute (informal, invited) June 2018
- “Factorizations of k -nonnegative matrices” [Che+17]
- Joint Mathematics Meetings January 2018
- “A rule of three for Schur Q-functions”, UMN REU August 2017
- RECOGNITION**
- Dean’s Honored Graduate** 2018
Research and academic distinction given to the top 1% of graduating students of UT College of Natural Sciences
- Forbes 30 Under 30 2019**