

CURRICULUM VITAE

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EDUCATION

PhD IN MATHEMATICS (in progress)

Sep 2022 – Present University of Toronto, St. George Campus
PhD Advisor: Elden Elmanto

M.Sc. IN MATHEMATICS

Oct 2021 – July 2022 University of Oxford, St Edmund Hall
M.Sc. in Mathematical Sciences, Distinction

B.A. IN MATHEMATICS

Aug 2017 – May 2021 University of California, Berkeley GPA: 3.939
B.A. in Mathematics, Highest Honors
High distinction in General Scholarship

TEACHING EXPERIENCE

TAships (UofT St George campus):

Spring 2025:	MAT224: Linear Algebra II
	MAT267: Advanced Ordinary Differential Equations
Fall 2024:	MAT224: Linear Algebra II
	MAT327: Introduction to Topology
Summer 2024:	MAT235: Multivariable Calculus
Winter 2024:	MAT224: Linear Algebra II
Fall 2024:	MAT224: Linear Algebra II
Summer 2023:	MAT301: Groups and Symmetries
Winter 2023:	MAT136: Calculus II
Fall 2022:	MAT135: Calculus I

CONFERENCES

- Aug. 2024: Talbot Workshop: Topological Cyclic Homology of Ring Spectra
Mentored by Jeremy Hahn and Allen Yuan
- July 2024: PCMI Graduate Summer School: Motivic Homotopy Theory
- June 2024: Ontario Graduate Mathematics Conference
- May 2024: Atlantic TQFT Spring School
- Oct. 2023: FRG workshop on Brauer groups and derived categories
Organized by Ben Antieau

TALKS

- June 2024: Ontario Graduate Mathematics Conference: What is Algebraic K-theory?
- Mar. 2024: Bird's Eye Conference (@UofT): An introduction to p-adic geometry

OTHER ACTIVITIES

Math Mentorship Program (@UofT):

Spring 2024: Mentee: Anousha Khan: Complex Analysis

Spring 2023: Mentee: Taran Singh: Category theory and linear algebra

RESEARCH EXPERIENCE

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|-------------|---|-------------------------|
| Summer 2020 | Numerical Covers of the Modular Surface
Supervised by Alex Kontorovich
Rutgers University DIMACS | REU Participant |
| Fall 2018 | Ji Lab (Cortical Fear Learning)
Supervised by Ryan Natan
UC Berkeley departments of MCB and Physics
Berkeley, CA | Undergraduate volunteer |
| Summer 2018 | Sims-Lucas Lab (Nephrology)
Supervised by Takuto Chiba
Children's Hospital of Pittsburgh
Pittsburgh, PA | Paid intern |
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PUBLICATIONS

1. **Shaikh KJ**, Rajakumar V, Osio VA, Shaikh N. (2021). Neutrophil gelatinase-associated lipocalin for urinary tract infection and pyelonephritis: a systematic review. *Pediatric Nephrology*, 36, 1481-1487.
2. Chiba T, Cerqueira D, Li Y, Bodnar AJ, Mukherjee E, Pfister K, Phua, YL, **Shaikh KJ**, Sanders B, Hemker S, Pagano PJ, Wu YL, Ho J, Sims-Lucas S. (2021). Endothelial-derived miR-17~ 92 promotes angiogenesis to protect against renal ischemia-reperfusion injury. *Journal of the American Society of Nephrology: JASN*, 32(3), 553.
3. **Shaikh KJ**, Osio V, Shaikh N, et al. (2020). Procalcitonin, C-reactive protein, and erythrocyte sedimentation rate for the diagnosis of acute pyelonephritis in children. *Cochrane Database of Systematic Reviews*, Issue 9. Art. No.: CD009185.
4. Hum SW, **Shaikh KJ**, Musa SS, et al. (2019). Adverse Events of Antibiotics Used to Treat Acute Otitis Media in Children: A Systematic Meta-Analysis. *The Journal of Pediatrics*, 215, 139-143.

LANGUAGES

Fluent:	English
Conversational:	Spanish
Intermediate Proficiency:	French, Chinese (普通话)
Beginner:	Tibetan, Farsi

INTERESTS

Birding, Classical Persian Music (setar)