

# 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

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## 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

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## CONFERENCES + WORKSHOPS

- Dec. 2024: Life After the Telescope Conjecture (SLMath)
- 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

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## 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

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## OTHER ACTIVITIES

- Directed Reading Program (University of Toronto):  
Spring 2025: Introduction to Hodge Theory (following Voisin's text)
- Math Mentorship Program (University of Toronto):  
Spring 2024: Mentee: Anousha Khan: Complex Analysis  
Spring 2023: Mentee: Taran Singh: Category theory and linear algebra

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## RESEARCH EXPERIENCE

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

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## LANGUAGES

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

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## INTERESTS

Birding, Classical Persian Music (setar)