CURRICULUM VITAE

Name:Kai ShaikhWebsite:kaishaikh.github.ioEmail:kshaikh@math.toronto.eduMobile Phone: +1-412-721-2998

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 + 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	
	TALKS	
Mar. 2025:	Bird's Eye Conference (@UofT): Motivic Filtrations	

- 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

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

RESEARCH EXPERIENCE

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 Phy Berkeley, CA	Undergraduate volunteer ysics
Summer 2018	Sims-Lucas Lab (Nephrology) Supervised by Takuto Chiba Children's Hospital of Pittsburgh Pittsburgh, PA	Paid intern

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.
- 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
English
Spanish
French, Chinese (普通话)
Tibetan, Farsi

INTERESTS

Birding, Classical Persian Music (setar)