

Khashayar Neshat

Department of Mathematics and Statistics, Texas A&M University

College Station, TX, USA

Website

Email: khashayarn@tamu.edu

Education

PhD in Mathematics

Texas A&M University, College Station, TX, USA

2025 – present

Supervisor: Frank Sottile

M.Sc. in Mathematics

University of Victoria, Victoria, Canada

2021 – 2024

Supervisor: David Goluskin

GPA: 8.83/9

Research: Exploiting symmetry in polynomial optimization problems.**M.Sc. in Electrical Engineering (Control Systems)**

Sharif University of Technology, Tehran, Iran

2016 – 2019

Supervisor: Saleh Tavazoei

GPA: 15.12/20

Research: Deriving linear matrix inequalities for fractional-order systems to be positive real or negative image.**B.Sc. in Electrical Engineering (Electronics)**

Islamic Azad University, Tehran Central Branch, Tehran, Iran

2011 – 2016

Non-Formal Education

Graduate Summer School

Joint Work of MSRI and Max Planck Institute, Leipzig, Germany

June 2023

Title: Algebraic Methods in Biochemical Reaction Networks**Graduate Summer School**

Joint Work of MSRI and BIRS, Okanagan, Canada

August 2022

Title: Sums of Squares Method in Geometry Combinatorics and Optimization**Research Interests**

- Applied Algebraic Geometry
- Non-commutative algebra
- Polynomial Optimization
- Algebraic Group

Awards & Honors

- Nominated and accepted by MSRI (SLMath) for summer school in Algebraic Methods in Biochemical Reaction Networks.
- Nominated and accepted by MSRI for summer school in Sums of Squares Method in Geometry Combinatorics and Optimization.
- Ranked 29th in the Electrical Engineering Nationwide University Entrance Exam for M.Sc. degree, 2016.

Publications

Kh. Neshat, M.S. Tavazoei, “*Algebraic Bound for the Phase-Frequency Response of the CRONE Approximation of Fractional Differentiators and Its Applications in Control Systems Analysis*”, Journal of Vibration and Control, Vol. 28(9-10), May 2022.

Kh. Neshat, M.S. Tavazoei, “*Algebraic Stability Analysis and Stabilization by Proportional Controllers: Critical Inflection Point in Phase*”, Iranian Journal of Electrical and Computer Engineering, Vol. 4—a No. 16, Winter 2019.

Teacher Assistantships

University of Victoria

Tutorial Leader:

- Calculus III: Summer 2023, Summer 2024
- Calculus II: Summer 2023
- Matrix Algebra: Fall 2023
- Precalculus: Fall 2023
- Calculus I: Fall 2022

Mathematics and Statistics Assistant Center:

- Head Tutor: Spring 2024
- Tutor: Spring 2022 – Spring 2024

Sharif University of Technology

Tutorial Leader:

- Linear Algebra: Fall 2019

Work Experience

Sessional Lecturer

University of Victoria
Teaching calculus I

Fall 2024 – Present

Research assistant

University of Victoria

Fall 2024 – Present

Under the supervision of David Goluskin and Heath Emerson

Sessional Lecturer

Binesh Institute of Higher Education

June 2019 – June 2021

Teaching Linear Control specifically for participations of Electrical Engineering Nation-wide University Entrance Exam for M.Sc. degree.

Consultant

Binesh Institute of Higher Education

May 2016 – May 2017

Educational consultant for Electrical Engineering M.Sc. entrance exams

Programming Languages

- Julia
- MATLAB
- Python
- Singular (Computer Algebraic Software)

Extracurricular Activities & Hobbies

- Calisthenics
- Acro Yoga
- Chess
- Camping

References

- Dr. Frank Sottile, Supervisor, Texas A&M
Tel: +1 (979) 845-7554
Email: sottile@tamu.edu
- Dr. David Goluskin, Supervisor, University of Victoria
Tel: +1 (250) 721-7450
Email: goluskin@uvic.ca
- Dr. Heath Emerson, Advisor Professor of Abstract Algebra II and committee member, University of Victoria
Tel: +1 (250) 721-7462
Email: hemerson@uvic.ca