Concordia University
MIAE Graduate
Student Committee

Ph.D. mentorship program

https://www.miaegsc-concordia.com/mentorship-program

- MIAE GSC is organizing a mentorship program with the purpose **of improving junior graduate** (especially Ph.D.) students' **knowledge** about the process of a graduate program
- As fellow research students, we help one another whenever we can.
- The MIAE Ph.D. Mentorship program provides **first year PhD students** with a list of **high achieving** senior Ph.D. candidates.

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Program goals & benefits

- A chance to take advantage of **experience and knowledge** of a graduate student .
- A pleasant and relaxed way to **develop skills** that go beyond your academic background.
- An opportunity to **fast track your knowledge** of the state-of-the-art in your research topic.

Mentors may:

- Provide tips on **academic success**.
- Share advice on **work/life balance.**
- Share their **personal insights.**
- **Recommend literature** on your topic.

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Resources:

- Personal mentor (current Ph.D. candidate)
- Virtual support group
- Monthly events
- Role models (successful Ph.D. graduates)

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« Tell me and I may forget, teach me and I may remember, involve me and I learn »- Confucian philosopher, Xunzi.

2018 Events

Sep- Introduction (w/ mentors & role models)

Oct- Lab tour

Nov- Advice for Ph.D. track

Dec- Story of 2 role models

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Ph.D. Mentors:

- Consists of successful senior PhD candidates, who have done completely the half of the Ph.D. program and are well aware of all challenges.

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PhD Role Models:

- Successful former members.
- Graduated Ph.D.’s in MIAE department who have found success in their career after graduation.

MIAE PhD Mentors

Amir Hooshiar

Languages: English, Farsi/Persian

"Robotic surgery, nonlinear material characterization"

Amir Hooshiar received his Bachelor's and Master's degrees in biomedical engineering with honors from Amirkabir University of Tehran (AUT), Iran, in 2007 and 2009, respectively. Meanwhile, he served as the President of the Students Scientific Associations of AUT. His research was focused on mechanical testing and modeling of bone tissue undergoing biologic growth and remodeling. Amir served as a Certified Medical Devices Expert in Iran for nine years. He was also the Chair in Science and Technology Committee of Medical Devices Bureau, Iran (2011-2014).

Amir joined Concordia University as a Ph.D. researcher in September 2015. He is an FRQNT scholarship recipient, NSERC Vanier scholar, NSERC CREATE for Surgical Innovation Fellow, and Ph.D. candidate in the Robotic Surgery Lab. His research is focused on studying the dynamics of cardiac catheters as highly flexible beams under large deformations. His research is mainly pertinent to the provision of haptics in robot-assisted cardiac interventions.

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MIAE PhD Mentors

Shambhu Kumar Gupta

Languages: *English, Hindi, Russian*

"Thermal cycling of composite materials under space environments"

Shambhu Kumar Gupta is a PhD candidate under Dr. Mehdi Hojjati. Shambhu joined the Aerospace, Mechanical and Industrial engineering department in Jan 2014 as a graduate research assistant. He received his Master's (2013) and Bachelor's (2011) degree in Aerospace and Aircraft engineering from Poland-Germany and Ukraine respectively.

His research topic is *thermal cycling of composite materials under space environments.* Other topics he is interested in are aircraft design, composite material design and testing. His Ph.D. work has led to collaborations with researchers from CRIAQ, MDA, Stelia Aerospace, McGill University and Concordia University and has produced three conference papers and two peer-reviewed journal papers. He is a research member of Concordia Center for Composites (CONCOM), CIADI and student representative for the AeroCREATE program.

He is now guiding 2 master's degree students and will be more than happy to help others along their research paths

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MIAE PhD Mentors

Masoud Hemmatian

Languages: English, Farsi/Persian

"Vibration and sound transmission analysis of circular sandwich panels fully and partially treated with MR fluid core layer"

Masoud Hemmatian received his bachelor's and master's degrees in mechanical engineering from Amirkabir University of Technology (Tehran Polytechnic), Iran. He received the Concordia University Full Tuition Recruitment Award and started his Ph.D. program in January 2014. His main research areas are semi-active and active noise, vibration control and smart materials and structures especially magnetorheological (MR) and electrorheological (ER) fluid based adaptive structures and systems. He worked on the vibration control of the rotor dynamic systems using MR-based squeeze film dampers in his master’s thesis. Currently, he has focused on the semi-active control of acoustical and structural behavior of sandwich structures treated with MR fluid core layer.

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MIAE PhD Mentors

Hamid Ebrahimi Orimi
Languages: English, Farsi/Persian
"A new approach of laser assisted bio printer"

Since 2016, Hamid Ebrahimi Orimi is working on his PhD in the laser assisted bio printing field at Concordia University. The project is in collaboration with the ophthalmology department at University of Montreal. He has a wide range of academic experiences such as software instructor, teaching assistant and Lab demonstrator.

He received his bachelor's degree in mechanical engineering from Ferdowsi University of Mashhad, Iran in 2010, and his master's degree in mechanical engineering from K. N. Toosi University of Technology, Tehran, Iran in 2012. During his undergraduate, he led a team in designing and developing a two-passenger electrical vehicle. The team placed second out of 80 contestants in conceptual and detail designs in the Iranian Machine Design Competition (IMDC). In his master's project, he developed the signal processing and image processing techniques to predict myocardial infraction in rats. The outcome of the project is published as journal and conference papers.

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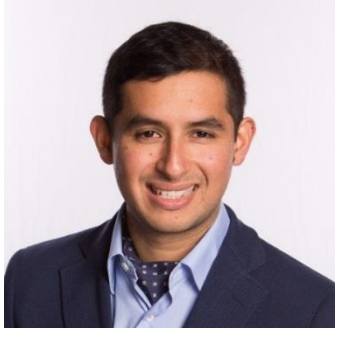

Carlos A. Zetina
Languages: English, Spanish
"Optimization methods for network design"

Carlos is a Ph.D. candidate at Concordia University under the supervision of professors Ivan Contreras, Ph.D. and Jean-François Cordeau, Ph.D.. He holds a bachelor's degree in applied mathematics and computers and a master of science in industrial engineering from the prestigious Universidad de las Americas Puebla in Mexico. He received numerous scholarships, honorary mentions and awards throughout his academic trajectory. He was valedictorian of the faculty of science during his undergraduate studies and graduated summa cum laude from his master's program.

His work has led to collaborations with researchers from Spain, Bulgaria, Iran, Mexico and Canada and has produced three papers in top journals, a conference proceeding and many presentations at international conferences. He is a founding member, past president and current editor-in-chief of the *Montreal Operations Research Student Chapter*, co-president of *The Operations Research Challenge* and member of the *MIAE Graduate Student Committee*.

He looks forward to providing tips on student life, research, and enjoying the city of Montreal.

MIAE PhD Mentors

Mahsa Moghaddass

Language: English, Persian, French
“Inverse Optimization”

Mahsa is a Ph.D. candidate at Concordia university under the supervision of professor Daria Terekhov, Ph.D.

She did her bachelor’s and master’s degree in Iran at Ferdowsi university of Mashhad. She started her Ph.D. in summer 2016 in industrial engineering and now she is working on models and algorithms for Inverse Optimization when Integrality and Noise in data are important.

She is very much interested in working in a group and she already has a lot of volunteer working experience in different associations.

She would be very happy to help new Ph.D. students and give them best tips and academic advices.

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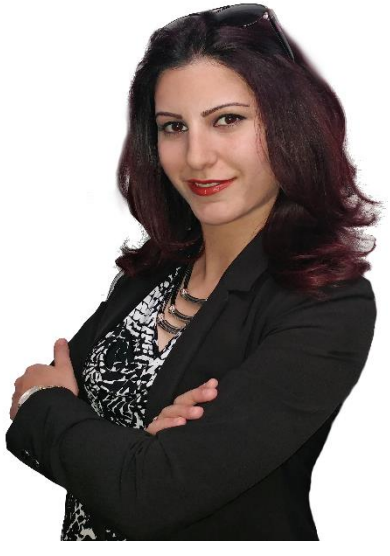
MIAE Ph.D. Role Models

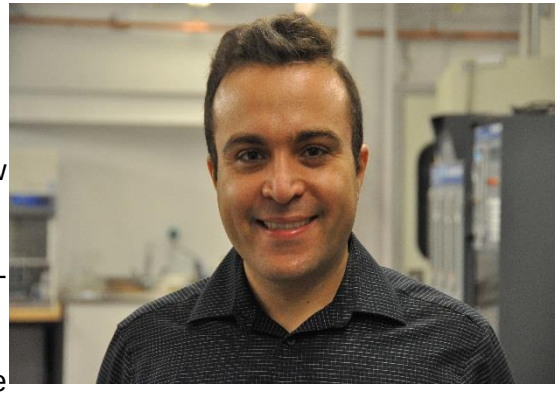
Jana Abou Ziki:



- **Current occupation:** Assistant Professor, Department of Automotive, Mechanical and Manufacturing Engineering, University of Ontario Institute of Technology
- **Years she was involved in the GSC:** 2013-2014
- **How the GSC helped her career:** Getting involved in the GSC as the Committee Chair strengthened my leadership skills and extended my professional network. The committee organized workshops and seminars where leaders from academia and industry were selected to present their work and research. As a graduate student, these workshops/seminars enhanced my knowledge and connected me with leaders in my field. They also created job opportunities for some students!
- **A memorable moment during her GSC tenure:** The end-of-year gathering which was a great opportunity to connect with professors and catch up with colleagues after a busy Fall semester!

Ph.D. Role Models

Navid Sharifi:



- **Current occupation:** Post-doctoral fellow in the thermal spray and multi-phase flow laboratory, Concordia. Part-time lecture at MIAE department.
- **Years she was involved in the GSC:** I was a member of MIAE GSC for three years, co-chairing the committee for two of those three years.
- **How the GSC helped him career:** GSC helped me develop my social skills and gave me networking opportunities. It also helped me build a strong and mutually beneficial with my supervisors and colleagues. Last but not least, being a member of GSC allowed me to practice and utilize my skills to arrange and organize meetings, events etc. in an academic and professional setting.
- **A memorable moment:** After a couple of years of successful activities of GSC, the ENCS administration decided to announce an award for extracurricular activities inspired by our work to encourage similar activities in other departments of ENCS. This was a very enjoyable success for us all that not only being relatively successful at what we wanted to do, but also to be inspiration and encouragement for other to follow in our footsteps.

Ph.D. Role Models

Mohammad Jeihoonian:

- **Occupation:** Senior Data Scientist
- **Years involved:** 2 years (2014-2016)
- **How it helped career:** I have been given opportunity to further develop my leadership and team-playing skills.
- **A memorable moment:** Every moment that the committee members worked together to reach the goals is a memorable one. Particularly, the first time we have organized a joint event for PhD seminar poster presentations and the end of year party. This specific event required lots of efforts.

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- We are looking forward to hearing from you by

signing up in the website for the mentorship program.

- We are always there to help you as far as we can.

- Please leave us your email and feedbacks.