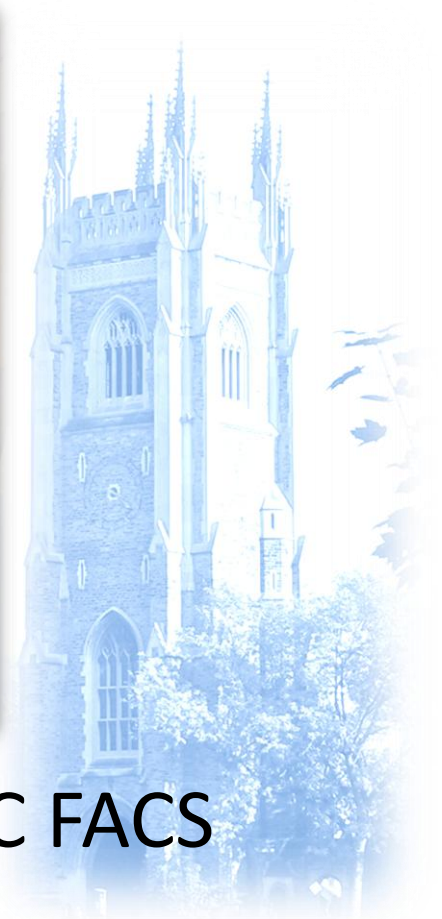


Research in Surgical Education



Andras B. Fecso MD PhD FRCSC FACS

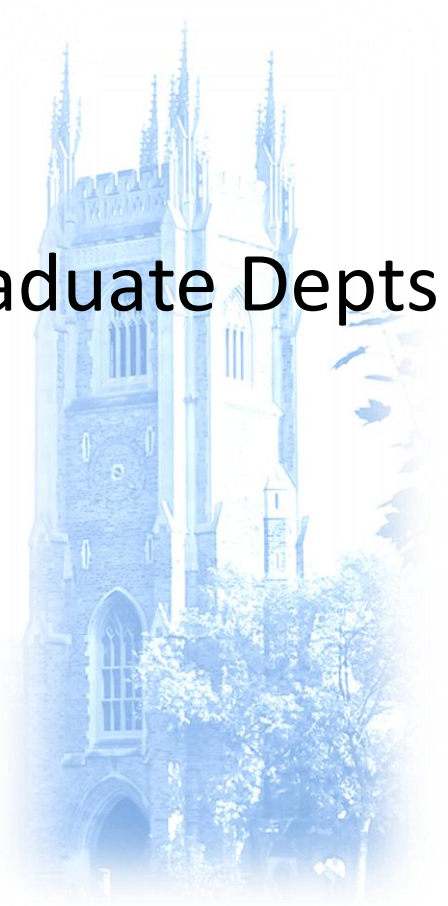
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Steps...

- Find your research interest
- Find your supervisor
- Get into the SSTP program and Graduate Depts
- Publications
- Thesis...
- ... and the work continues...



Finding your research interest...

Coaching/
Mentoring

Simulation/
Virtual OR

Assessment of
perioperative
teams/individuals/
environment

Curriculum
development/
CBE

Patient safety

Training/learning
modules

Performance
assessment

AI/ML

Innovation/
New technology



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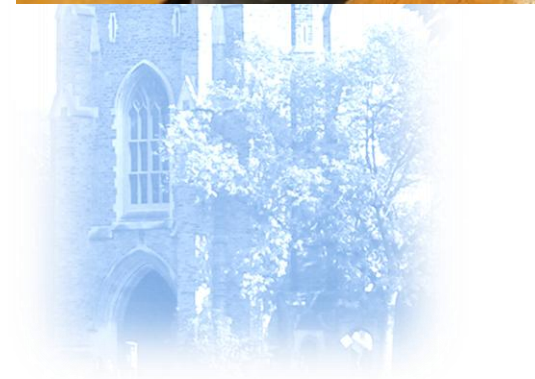
Finding your supervisor...

- Dr. Allan Okrainec (UHN)
 - Current research focus:
 - Surgical simulation
 - Surgical education
 - Distance education
 - Telementoring



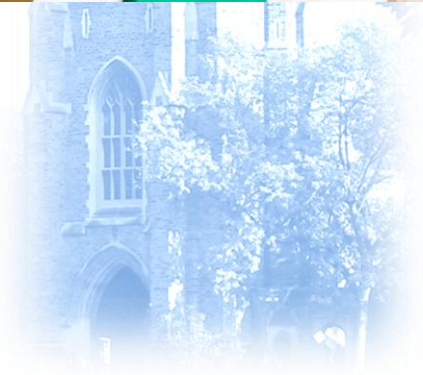
Finding your supervisor...

- Dr. Carol-Anne Moulton (UHN)
 - Current research focus:
 - Understanding stress and performance in the OR
 - Benefits of training interventions in surgical residency
 - Exploration of relationships between healthcare providers
 - Surgeon coaching



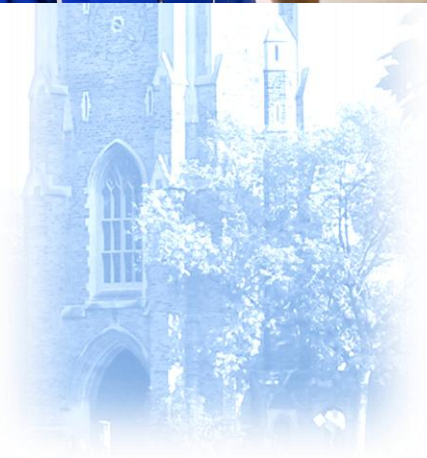
Finding your supervisor...

- Dr. Tulin Cil (WCH/UHN)
 - Current research focus:
 - Mental preparation in surgical skills training (upcoming RCT)
 - Gender issues in surgery
 - Breast surgery outcomes (NSQIP)



Finding your supervisor...

- Dr. Amin Madani (UHN)
 - Current research focus:
 - The use of technology in performance improvement
 - Machine learning
 - Computer vision
 - Augmented/virtual reality
 - Mental models, intra-op decision making, etc.



Finding your supervisor...

- Dr. Chaya Schwartz-Ganor (UHN)
 - Current research focus:
 - Resident and fellows education
 - Technical skills
 - Simulation



Finding your supervisor...

- Dr. Marisa Louridas (SMH)
 - Current research focus:
 - Acquisition of surgical skills
 - Non-technical & Technical performance assessment
 - Coaching



Finding your supervisor...

- Dr. Andras B. Fecso (UHN)
 - Current research focus:
 - Endoscopy curriculum development
 - Coaching and deliberate practice
 - Individual and team assessment in the OR and endoscopy unit
 - Innovation in the field of bariatric endoscopy
 - Exploring the synergy between surgery and endoscopy



A word of advice...

- Choose a project **YOU** are passionate about
- Talk to current/previous sstp residents from the lab
 - visit the lab, environment
 - Assure your project is inline with the strengths and focus of your potential supervisor/lab



Graduate Departments

University of Toronto (MSc/PhD)

1. Institute of Medical Science (IMS)
 - Thesis driven
2. Ontario Institute for Studies in Education (OISE)
 - Course driven, can do project simultaneously but not required
3. Institute of Health Policy, Management and Evaluation (IHPME)
 - Variable streams (course focused vs. combination)



Be productive...



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ENDOSCOPY



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SURGICAL
Laparoscopy Endoscopy
& PERCUTANEOUS TECHNIQUES

Last piece of advice...

Submit your
thesis prior to
return to clinical
work!!!



To summarize...

