

A top-down view of a wooden desk. In the center is a silver laptop with a black keyboard. To the right of the laptop is a white ceramic mug filled with dark coffee. To the left of the laptop are three crumpled pieces of yellow paper. To the right of the laptop are two yellow pencils and a small, blank, lined notepad. The background is a solid green wall with a yellow geometric shape on the right side.

Projects of CRAME and Admissions to Universities in Canada MEDS

Okan Bulut

Measurement, Evaluation, and Data Science
University of Alberta



I am **Okan Bulut**

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UNIVERSITY OF
ALBERTA



CRAME & MEDS

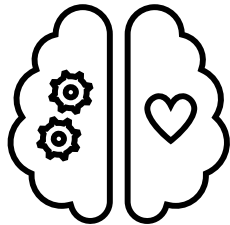


Centre for Research in Applied Measurement and Evaluation
<http://www.crame.ualberta.ca/>

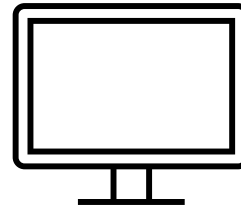


Measurement, Evaluation, and Data Science
https://bit.ly/MEDS_UAlberta

**Computerized
Testing**



**Motivation
&
Assessment**



**Learning
Analytics**



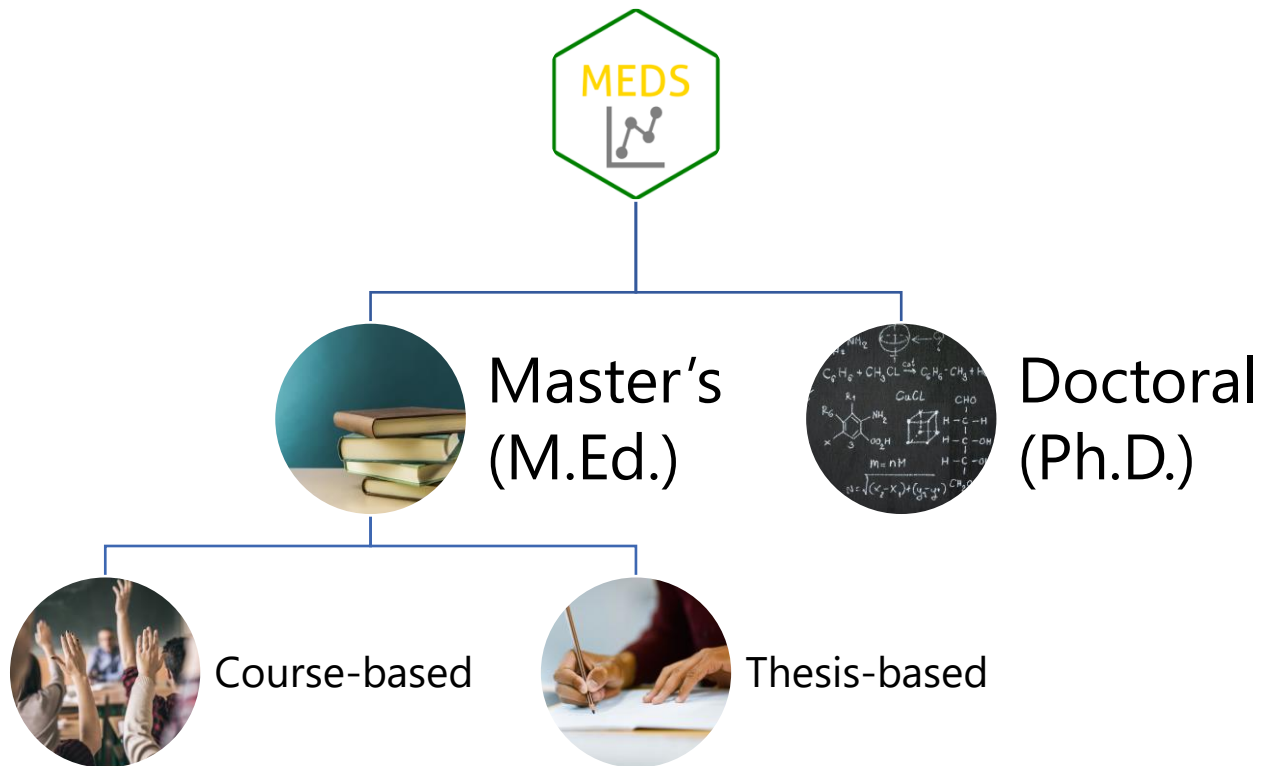
**Socio-emotional
Learning**

**COGNITIVE DIAGNOSIS
AND INTERVIEWING**

**PERFORMANCE-BASED
ASSESSMENTS**

**INNOVATIONS IN
RESEARCH METHODS**

**PSYCHOLOGICAL
ASSESSMENTS**





We are **different from traditional measurement programs...**

Differential item/test functioning and measurement invariance

Classical Test Theory and Item Response Theory

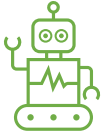
Scale/survey/test development

Validity and reliability

t-tests, ANOVA/MANOVA, regressions

Factor analysis, structural equation modeling

...



Machine learning/data mining



Learning analytics



Computational linguistics



Natural language processing (NLP)



python™



ANACONDA.

A (brief) list of research areas we are interested in:



Digital assessments

- Enhancing the existing digital assessments (e.g., automated feedback generation)
- New algorithms and applications for supporting personalized learning



Learning analytics and educational data mining

- Modeling ancillary data (e.g., response time) obtained from online assessments
- Analysis of log data extracted from learning management systems (e.g., Moodle)



Text mining and natural language processing (NLP) applications

- Automated scoring applications (e.g., essay scoring)
- Automatic item/text generation for assessments

Admissions to MEDS

Requirements:

- A minimum GPA of 3.0 out of 4.0 on the most recent 60 credits of course work
- Proof of proficiency in the English language
 - TOEFL IBT ≥ 93 or IELTS ≥ 7 with no band less than 6.5
 - If previous academic work was completed in English, this requirement can be waived.
- The GRE score is **NOT** required.

Other application documents:

- Transcripts of undergraduate/graduate degrees
- 3 letters of reference
- A statement of intent explaining areas of research interest and academic goals
- CV/resume highlighting previous work/research experience, publications/presentations (for PhD)
- PhD applicants must contact potential supervisors from MEDS before submitting an application

Deadline: December 15 for Fall term admissions



Banff, AB

The background features a large, faint watermark of the University of Alberta crest. The crest is circular, with the words "UNIVERSITY OF ALBERTA" at the top and "QUAECUMQUE VERA" at the bottom. The central shield contains a book, a mountain range, and a river. Two maple leaves are positioned on either side of the shield.

Thank You!

For questions:

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