

Math & Computer Science

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Season's Greetings



DIGITAL AGE IN ... PRINTED WORD OUT



After discussion in a department meeting, members of the department had the difficult task of deciding which journals and magazines to retain in C509. The intent of the extensive purge is to make the space a more welcoming environment for faculty and staff. Refuge for the outgoing journals and magazines was sought at the U of L Library and also as donations to the recently incinerated Red Crow College holdings; however, neither institution was interested as most of these items can be found online. The digital age has made its impact on the printed word.





The lucky survivors.



Bright and welcoming... mission accomplished.

IN THEIR DEFENSE!



SOMA KHAN

MSc (computer science)

Defended: 7 Oct 2015

Thesis: *Ranking Components of Scientific Software Using Spectral Methods*

Committee:

Shahadat Hossain, supervisor

Daya Gaur, committee member

Robert Benkoczi, committee member

Howard Cheng, examination chair



RUMANA QUASHEM

MSc (computer science)

Defended: 9 Oct 2015

Thesis: *Design Structure Matrix: Models, Applications and Data Exchange Format*

Committee:

Shahadat Hossain, supervisor

Daya Gaur, committee member

Robert Benkoczi, committee member

Howard Cheng, examination chair



SINA GOLESTANIRAD

MSc (computer science)

Thesis: *Utilization of Common Human Queries in Ranking Automatically Generated Questions*

Committee:

Yllias Chali, supervisor

John Zhang, committee member

Wendy Osborn, committee member

Howard Cheng, examination chair



KAWSAR JAHAN

MSc (computer science)

Defended: 9 Dec 2015

Thesis: *Covering 3D Points with Axis Parallel Lines*

Committee:

Daya Gaur, co-supervisor

Robert Benkoczi, co-supervisor

Shahadat Hossain, committee member

Saurya Das, committee member

Howard Cheng, examination chair



PENG GONG

MSc (computer science)

Defended: 16 Dec 2015

Thesis: *A Nearest Neighbour Search Method Suitable for Low Dimensions and Location-Dependent Spatial Queries in Mobile Computing*

Committee:

Wendy Osborn, supervisor

Yllias Chali, committee member

John Zhang, committee member

Howard Cheng, examination chair

We wish you all well and much success wherever life takes you!

Incoming graduate students

NURGUL AIMAITI
MSc (computer science)
Supervisor: Shahadat Hossain



TINA BAGHAEE
MSc (computer science)
Supervisor: Yllias Chali



DAKOTA DUFFY
MSc (mathematics)
Supervisor: Amir Akbary





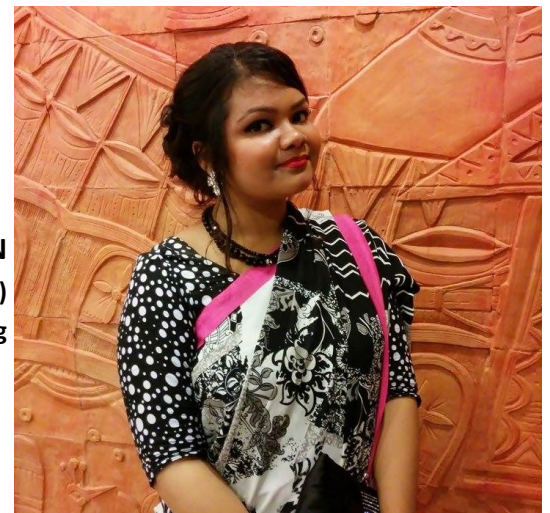
FORREST FRANCIS
MSc (mathematics)
Supervisor: Amir Akbary



BRANDON FULLER
MSc (mathematics)
Supervisor: Joy Morris



RAFAT ISLAM
MSc (computer science)
Supervisor: Yllias Chali



IFFATUR RIDWAN
MSc (computer science)
Supervisor: Howard Cheng

LETHBRIDGE COLLEGIATE PROGRAMMING CONTEST

The 2015 Lethbridge Collegiate Programming Contest took place on October 10. There were two divisions, with 8 competitors in Division 1 and 7 competitors in Division 2. Guest competitors from the University of Alberta, University of Calgary, and Lethbridge College also participated. Prizes to the top competitors in each division were sponsored by FarmersEdge.

The top performers were:

Division 1:

- 1st Place: Matt Basaraba
- 2nd Place: Brandon Fuller
- 3rd Place: Marko Ilievski

Division 2:

- 1st Place: Stephanie McIntyre
- 2nd Place: Brad Melchin
- 3rd Place: Julius Moore

For more information, please see <http://www.cs.uleth.ca/~cheng/LCPC/>

ALBERTA COLLEGIATE PROGRAMMING CONTEST

The Alberta Collegiate Programming Contest (ACPC) took place Oct 17, with teams from the University of Alberta, University of Calgary, and University of Lethbridge competing.

We have four teams competing in Division 1 of the ACPC. The top 3 teams in the contest were the top team from each university:

1. University of Calgary
2. University of Alberta
3. University of Lethbridge

The team members of our top team are: Kai Fender, Brandon Fuller, and Lukas Grasse.

Four teams from our university will be participating at the annual Rocky Mountain Regional contest on November 14 in Edmonton.

ACM ROCKY MOUNTAIN REGIONAL CONTEST

The ACM Rocky Mountain Regional Contest took place today. The top three teams in the region are:

1. University of Utah, solving 8 problems (1048 penalty minutes)
2. Colorado School of Mines, solving 8 problems (1053 penalty minutes)
3. University of Arizona, solving 7 problems (823 penalty minutes)

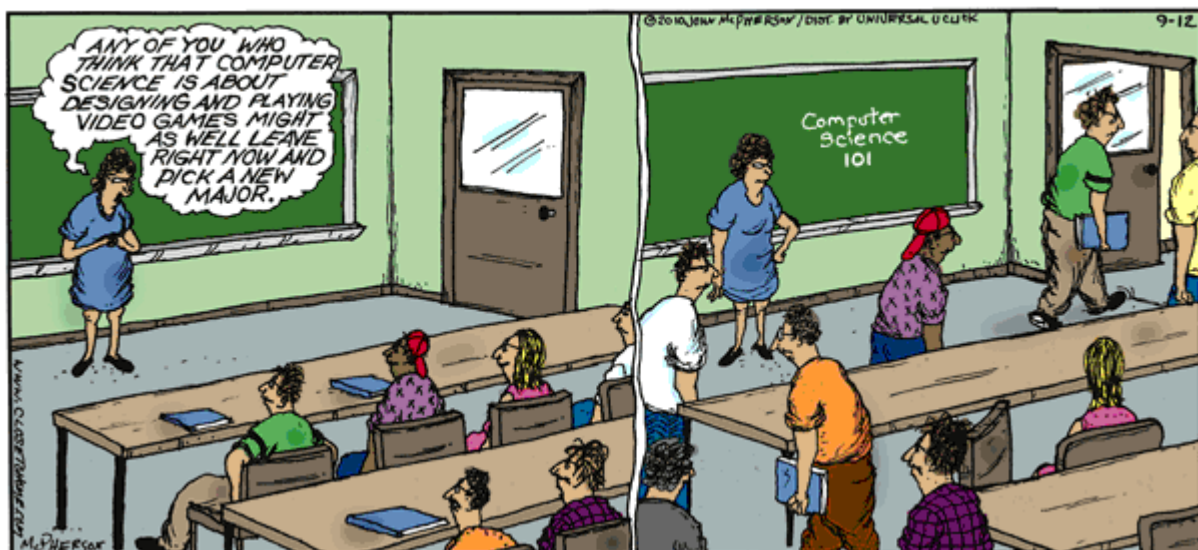
No Canadian university made it to the top 3 this year. Our top team finished 4th and was the top Canadian team, solving 7 problems with 999 penalty minutes.

The ranking for our teams are (out of 52 teams):

4. University of Lethbridge 1 (Kai Fender, Brandon Fuller, Lukas Grasse)
14. University of Lethbridge 2 (Lindsay Ablonczy, Matt Basaraba, Stephanie McIntyre)
20. University of Lethbridge 3 (Brad Melchin, Julius Moore, Soraj Seyed-Mahoud)
21. University of Lethbridge 4 (Lyle Snelgrove, Marko Ilievski, Justin Werre)

CLOSE TO HOME

BY JOHN McPHERSON



DEPARTMENT WEBSITE

[HTTP://WWW.ULETH.CA/ARTSCI/MATH-COMPUTER-SCIENCE](http://www.uleth.ca/artsci/math-computer-science)



Faculty of Arts & Science
Mathematics & Computer Science

- About Us
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Here's a look at what's on our department website.

Each heading is broken down into subheadings — tons of information!

Any suggestions? Please feel free to pass them along.

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DEPARTMENT SEMINARS, COLLOQUIA, CONFERENCESWWW.ULETH.CA/ARTSCI/MATH-COMPUTER/SCIENCE/EVENTS**Colloquium**

Nov 09—Vladimir Troitsky, U of A; Unbounded order convergence and regular sublattices

Lethbridge Number Theory & Combinatorics Seminar Series (Mondays, noon):

Sep 04—Open Problem Session, moderated by Nathan Ng and Dave Morris

Sep 21—Amy Feaver, King's University; two-part talk on (1) Sage mathematics software and (2) multiquadratic fields

Sep 28—Dave Morris, U of L; What is a superrigid subgroup?

Oct 05—Alexey Popov, U of L; Every operator has almost-invariant subspaces

Oct 19—Alia Hamieh, U of L; Special values of Rankin-Selberg L -Functions

Oct 26—Farzad Aryan, U of L, Gaps between zeros of the Riemann zeta function

Nov 02—Nathan Ng, U of L; The autocorrelation of a multiplicative function

Nov 16—Amir Akbary, U of L; Lang-Trotter Revisited

Nov 23—Mohammad Bardestani, U of Ottawa; Isotropic quadratic forms and the Borel chromatic number of quadratic graphs

Nov 30—Habiba Kadiri; Explicit bounds for $V(x; q, a)$

Dec 07—Joy Morris; Colour-permuting and colour-preserving automorphisms

Optimization Research Group

Sep 11—Mark Thom, PhD student; Minimizing total sensor movement for barrier coverage by non-uniform sensors on a line

Sep 15—Mozammel H.A. Khan, visiting researcher; Combinatorial optimizations of some graph problems using evolutionary algorithms

Sep 28—Soma Khan, MSc candidate; Ranking components of scientific software using spectral methods

Sep 30—Rumana Quashem, MSc candidate; Design structure matrix: models, applications and data exchange format

Oct 28—Ram Dahal, PhD student; The robust weighted vertex coloring problem with uncertain data

Nov 04—Kawsar Jahan, MSc candidate; Covering 3D Points with Axis Parallel lines

Dec 09—Peter Chen, Memorial University; Evolutionary algorithmic deployment of radio beacons for indoor positioning

Other

Nov 30—Information Session: How to get a summer research job in Math and Computer Science