2017-2018 Graduate Calendar

The information published in this Graduate Calendar outlines the rules, regulations, curricula, programs and fees for the 2017-2018 academic years, including the Summer Semester 2017, Fall Semester 2017 and the Winter Semester 2018.

For your convenience the Graduate Calendar is available in PDF format.

If you wish to link to the Graduate Calendar please refer to the Linking Guidelines.

The University is a full member of:

• The Association of Universities and Colleges of Canada

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Disclaimer

The Office of Graduate Studies has attempted to ensure the accuracy of this on-line Graduate Calendar. However, the publication of information in this document does not bind the university to the provision of courses, programs, schedules of studies, fees, or facilities as listed herein.

Limitations

The University of Guelph reserves the right to change without notice any information contained in this calendar, including any rule or regulation pertaining to the standards for admission to, the requirements for the continuation of study in, and the requirements for the granting of degrees or diplomas in any or all of its programs.

The university will not be liable for any interruption in, or cancellation of, any academic activities as set forth in this calendar and related information where such interruption is caused by fire, strike, lock-out, inability to procure materials or trades, restrictive laws or governmental regulations, actions taken by the faculty, staff or students of the university or by others, civil unrest or disobedience, Public Health Emergencies, or any other cause of any kind beyond the reasonable control of the university.

The University of Guelph reaffirms section 1 of the Ontario Human Rights Code, 1981, which prohibits discrimination on the grounds of race, ancestry, place of origin, colour, ethnic origin, citizenship, creed, sex, sexual orientation, handicap, age, marital status or family status.

The university encourages applications from women, aboriginal peoples, visible minorities, persons with disabilities, and members of other under-represented groups.

Collection, Use and Disclosure of Personal Information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) http://www.e-laws.gov.on.ca/DBLaws/Statutes/English/90f31_e.htm. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes. Certain personal information is disclosed to external agencies, including the Ontario Universities Application Centre, the Ministry of Training, Colleges and Universities, and Statistics Canada, for statistical and planning purposes, and is disclosed to other individuals or organizations in accordance with the Office of Registrarial Services Departmental Policy on the Release of Student Information. For details on the use and disclosure of this information call the Office of Registrarial Services at the University at (519) 824-4120 or see https://www.uoguelph.ca/registrar/

Statistics Canada - Notification of Disclosure

For further information, please see Statistics Canada's web site at http://www.statcan.gc.ca and Section XIV Statistics Canada.

Address for University Communication

Depending on the nature and timing of the communication, the University may use one of these addresses to communicate with students. Students are, therefore, responsible for checking all of the following on a regular basis:

Email Address

The University issued email address is considered an official means of communication with the student and will be used for correspondence from the University. Students are responsible for monitoring their University-issued email account regularly.

Home Address

Students are responsible for maintaining a current mailing address with the University. Address changes can be made, in writing, through the Office of Graduate Studies.

Name Changes

The University of Guelph is committed to the integrity of its student records, therefore, each student is required to provide either on application for admission or on personal data forms required for registration, his/her complete, legal name. Any requests to change a name, by means of alteration, deletion, substitution or addition, must be accompanied by appropriate supporting documentation.

Student Confidentiality and Release of Student Information Policy Excerpt

The University undertakes to protect the privacy of each student and the confidentiality of his or her record. To this end the University shall refuse to disclose personal information to any person other than the individual to whom the information relates where disclosure would constitute an unjustified invasion of the personal privacy of that person or of any other individual. All members of the University community must respect the confidential nature of the student information which they acquire in the course of their work. Complete policy at http://www.uoguelph.ca/policies.

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Computational Sciences

The School of Computer Science (SoCS) offers an Interdisciplinary PhD degree in Computational Sciences that encompasses multiple Departments/Schools across the University of Guelph. The program provides a unique opportunity for students to study computing within the context of another discipline commensurate with their interests and career goals. Students entering this PhD program perform research that bridges Computer Science with at least one other discipline such as Economics and Finance, Engineering, English and Theatre Studies, Geography, History, Integrative Biology, Mathematics and Statistics, Pathobiology, Population Medicine and Psychology.

Administrative Staff

Director

Pascal Matsakis (900D MacKinnon, Ext. 58270) director@socs.uoguelph.ca

Associate Graduate Director Joe Sawada (206 J.D. MacLachlan, Ext. 53277) jsawada@uoguelph.ca

Graduate Program Assistant Jennifer Hughes (904 MacKinnon, Ext. 56402) gradassist@socs.uoguelph.ca

Graduate Faculty

From the School of Computer Science

Luiza Antonie BSc Bucharest, MSc, PhD Alberta - Assistant Professor David A. Calvert

BA, MSc Guelph, PhD Waterloo - Associate Professor David K.Y. Chiu

BA Waterloo, BSc Guelph, MSc Queen's, PhD Waterloo - Professor Rozita Dara

BSc Shahid Teheshti, MSc Guelph, PhD Waterloo - Assistant Professor

William Gardner BSEE MIT, BEd Toronto, PhD Victoria - Associate Professor

Gary Gréwal BSc Brock, MSc, PhD Guelph - Associate Professor

Andrew Hamilton-Wright BSc, MSc Guelph, PhD Waterloo - Associate Professor Stefan C. Kremer

BSc Guelph, PhD Alberta - Associate Professor

Xining Li BSc, MSc Nanjing, PhD Calgary - Professor

Pascal Matsakis BSc, MSc, PhD Paul Sabatier (France) - Professor and Director

Judi R. McCuaig BEd, BSc, MS, PhD Saskatchewan - Associate Professor

Blair Nonnecke

BSc, MSc Guelph, PhD South Bank - Associate Professor Charlie F. Obimbo

MSc Kiev, PhD New Brunswick - Associate Professor Joseph Sawada

BSc, PhD Victoria (British Columbia) - Associate Professor Stacev Scott

BSc Dalhousie, PhD Calgary - Assistant Professor

Fei Song

BSc Jilin (China), MSc Academia Sinica (China), PhD Waterloo - Associate Professor **Deborah A. Stacey**

BSc Guelph, MASc, PhD Waterloo - Associate Professor

Fangju Wang BE Changsha, MSc Peking, PhD Waterloo - Professor

Mark Wineberg BSc Toronto, MSc, PhD Carleton - Associate Professor

Michael A. Wirth BSc New England (Aust.), MSc Manitoba, PhD RMIT Melbourne - Associate Professor Yang Xiang

BSs, MSc BUAA (Beijing), PhD UBC - Professor

From the Department of Economics and Finance Miana Plesca

BSc Technical University of Cluj (Romania); MA Georgetown (Washington, D.C.); PhD Western - Associate Professor and Interim Associate Dean, Research and Graduate Programs, College of Business and Economics

From the School of Engineering Hussein A. Abdullah BSc Univ. of Technology, MSc, PhD Glasgow, PEng - Professor and Director Shawki Areibi BASc Al-Fateh, MASc Waterloo, PhD Waterloo, PEng - Professor Fantahun Defersha BSc Ethiopia, MEng India, PhD Concordia - Assistant Professor **Robert Dony** BASc, MASc Waterloo, PhD McMaster, PEng, FIET, FEC - Associate Professor Stefano Gregori Laurea, Doctorate Univ. of Pavia - Associate Professor Medhat A. Moussa BSc American, MASc Moncton, PhD Waterloo, PEng - Professor Radu Muresan Dipl. Engg Technical Univ. of Cluj-Napoca (Romania); MASc, PhD Waterloo, PEng -Associate Professor **Beth Parker** BS Pennsylvania, MS North Carolina, PhD Waterloo - Professor Graham Tavlor BASc, MASc Waterloo, PhD Toronto - Assistant Professor Simon X. Yang BSc Peking, MSc Sinica, MSc Houston, PhD Alberta - Professor From the School of English and Theatre Studies Susan Brown BA King's College and Dalhousie, MA Dalhousie, PhD Alberta - Professor From the Department of Geography Wanhong Yang BSc Hubei, MSc Chinese Academy of Sciences, PhD Illinois - Professor From the Department of History Kris E. Inwood BA Trent, MA, PhD Toronto - Professor From the Department of Integrative Biology Robert Hanner BSc Eastern Michigan University, PhD University of Oregon - Associate Professor Robert L. McLaughlin BSc Windsor, MSc Queen's, PhD McGill - Associate Professor From the Department of Mathematics and Statistics **Gerarda Darlington** BSc, MSc Guelph, PhD Waterloo - Professor From the Department of Pathobiology Shavan Sharif DVM Tehran, PhD Guelph - Professor From the Department of Population Medicine Amy Greer BSc, Mount Allison, MSc, Trent, PhD Arizona State - Assistant Professor David Pearl BSc McGill, MSc York, DVM, PhD Guelph - Associate Professor Zvonimir Poliak DVM Croatia, MSc, PhD Guelph - Associate Professor From the Department of Psychology Naseem Al-Aidroos BSc Waterloo, MA, PhD Toronto - Assistant Professor Mark J. Fenske BSc Lethbridge, MA, PhD Waterloo - Associate Professor Lana M. Trick BSc Calgary, MA, PhD Western Ontario - Associate Professor **PhD Program** The objective of the PhD program is to produce interdisciplinary scholars who are capable of tackling emerging problems in a variety of disciplines through investigation and application of current computer technologies. Students require two co-advisors: one from the School of Computer Science; and the second from another discipline (see Graduate Faculty).

Admission Requirements

In addition to the Office of Graduate Studies admission requirements, applicants must submit: (i) a current CV including research publications; and (ii) a statement of research (maximum of 1500 words). The minimum academic requirement for admission to the PhD program is normally a recognized Master's degree that included a thesis or major independent project. We do not require students entering the program to have a credential in Computer Science. Such students are required to identify their experience using computerized techniques and demonstrate that they have the necessary background to complete the tasks outlined in a research proposal.

In exceptional circumstances, a student who has completed an honours undergraduate Computer Science degree (or an equivalent 4-year undergraduate degree) may apply for direct admission to the PhD program. The successful applicant must have an outstanding academic record, breadth of knowledge in Computer Science, demonstrated research accomplishments, and strong letters of recommendation.

Prospective students should check the School of Computer Science (SoCs) website http://www.socs.uoguelph.ca/ for further details. procedures and deadlines.

Degree Requirements

The PhD program requires completion of CIS*6890: Technical and Communication Research Methodology, coupled with any additional courses and/or Computational Learning Modules assigned by the Advisory Committee on entry to the program. To achieve candidacy, students are expected to present a research proposal in a two-part seminar and successfully complete the Qualifying Examination (QE). Finally, students must present and defend a thesis.

Courses

CIS*6890 Technical Communication and Research Methodology U [0.50]

This course aims to develop students' ability in technical communication and general research methodology. Each student is expected to present a short talk, give a mini lecture, review a conference paper, write a literature survey and critique fellow students' talks and lectures.

Department(s): School of Computer Science