



**UNIVERSITY OF TORONTO**  
**FACULTY OF APPLIED SCIENCE & ENGINEERING**

**EMERGENCY TA Job Posting: Winter 2020 ECE1513 - Foundations of Data Analytics and Machine Learning**

This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement.

**Job Posting Date:** Jan 27, 2020

**Application Deadline:** Jan 29, 2020

**Course Description:**

Introduction to the basic theory, the fundamental algorithms, and the computational toolboxes of machine learning. The focus is on a balanced treatment of the practical and theoretical approaches, along with hands on experience with relevant software packages. Supervised learning methods covered in the course will include: the study of linear models for classification and regression and neural networks. Unsupervised learning methods covered in the course will include: principal component analysis, k-means clustering, and Gaussian mixture models. Techniques to control overfitting, including regularization and validation, will be covered.

**1 position Available – Section 0102 for 100 Hours**

**Duties:**

- \* grading of student assignments
- \* grading of tests and exams (1 test 1 exam)
- \* invigilation of the final exam and tests
- \* entry of the above grades into Quercus

**Qualifications:** Students with significant practical and theoretical understanding of Machine Learning concepts, and python programming should apply.

Rate of Pay: Current TA rates: U/G: \$46.24 /hour; SGS I: \$46.24 /hour; SGS II: \$46.24 /hour

**Date of Appointment:** January 30, 2020

For more information about this courses, see <http://gradstudies.engineering.utoronto.ca/professional-degrees/elite-certificate>.

**Notes:**

1. TA position and hours posted are tentative, pending final course determination and enrollment.
2. The Vice-Dean of Graduate Studies in the Faculty of Applied Science & Engineering has the sole authority to offer the above TA positions.
3. CUPE 3902 Unit 1 Collective Agreement is available at <http://agreements.hrandequity.utoronto.ca>.

To apply for a TA position, please submit CV and resume as a single PDF to David Duong [d.duong@utoronto.ca](mailto:d.duong@utoronto.ca) to TA for by **Jan 29, 2020**

*Please note that should rates stipulated in the collective agreement vary from rates stated in this posting, the rates stated in the collective agreement shall prevail. Please note that the above course/position is tentative, pending final course determination and enrolments. The Faculty's hiring policy is available in the Faculty office and at the CUPE, Local 3902 office. In accordance with the Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples, and persons with disabilities*

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