

Daniel Tufcea

Master of Science

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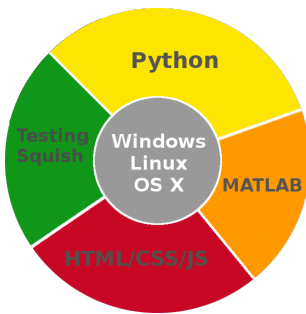
Web & Social

TufceaD.github.io
github.com/TufceaD
linkedin.com/in/tufcead

Languages

English ★★★★★
French ★★★★★
Romanian ★★★★★★

Programming



Personal Skills



Education

2012 - 2014 Master's Degree in Physics

McGill University

Main subjects: Physics, developmental biology, evolutionary algorithm, gene networks and dynamical system theory.

2009 - 2012 Bachelor of Science, Joint Honours

McGill University

First Class Honours in Mathematics and Physics
Graduated with distinction

Main subjects: Mathematics and Physics, emphasis on grad level courses.

Experience

2015 - Now Software Developer in Test

Inrosoftware

Wrote automated test cases using Python and Squish GUI tester to test the back-end and front-end of a network editor. Developed tools for data manipulation, data import and mapmatching.

2012 - 2014 Research Assistant

McGill University

Used evolutionary algorithms in Python and C to model and select for gene networks during embryological development. Analysed the selected gene networks using MATLAB and derived analytical results using dynamical system theory.

2012 - 2014 Physics Lab Teacher

McGill University

Taught two biweekly physics lab classes on Electromagnetism.

Awards, Grants & Honours

2012 NSERC Undergraduate Student Research Award (USRA)

2011 Science Undergraduate Research Award (SURA)

2011 George & Lidia Petras Scholarship

2011 E. P. Aikman Prize in Physics

Publications

2015 Tufcea D., Francois P. *Critical Timing without a Timer for Embryonic Development*, Biophysical Journal, Vol 109, Oct 2015, p. 1724-1734

2014 Tufcea D., *Emergence of slow timescales in development controlled by a temporal morphogen signal*, Thesis

Extracurriculars

2010 - 2012 Vice President of Internal Affairs - MSPS

McGill University

Responsible for the communication between the student body, the MSPS council and the physics department.

2012 - 2014 Tutor and Teacher's Assistant

McGill University & Marianopolis College

Helped students with difficulties in mathematics and physics at the CEGEP and university level.

Interests

Professional: Data analysis, data modeling, applied mathematics, programming.

Personal: Rock climbing, kickboxing, hiking & biking, powerlifting, programming.