

Daniel Tufcea

Master of Science

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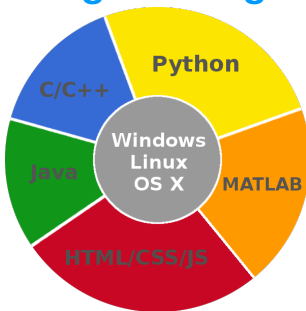
Web & Social

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.
- 2007 - 2009 **Diploma of College Studies** **Marianopolis College**
Main subjects: Pure and Applied Sciences.

Experience

- 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. *Timing without timer during embryonic development.* (In progress)
- 2014 Tufcea D., *Emergence of slow timescales in development controlled by a temporal morphogen signal*, Thesis
- 2012 Tufcea D., *Canalization and Timers within Developmental Biology*
McGill Undergraduate Poster Presentation

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 both at the CEGEP and university level.

Interests

Professional: Data analysis, data modeling, applied mathematics, programming.
Personal: Kickboxing, hiking & biking, powerlifting, programming.