Vivek Thampi

Data Scientist

Mathematician with experience in Mathematical Biology and Data Analysis

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WORK EXPERIENCE

Ph. D Research Student
University of Waterloo

09/2013 – Present

Achievements/Tasks

- Modified an ecosystem model into a coupled human-environment system to investigate the impact of overfishing on the dynamics of the Caribbean coral reef ecosystem.
- Determined conditions to promote coral and parrotfish recovery based on the levels of human intervention and social norms. Results published in Scientific Reports in 2017.
- Current work focuses on the impact of pollution on the dynamics of native and exotic grassland biomass in Southern Australia and a systematic review of the usefullness of coupled human-environment models.

Master's Research Student
McMaster University

09/2012 – 08/2013

Achievements/Tasks

- Performed research exploring plausibility of backward bifurcations with respect to within-host Hepatitis B/C Virus models.
- Determined plausible necessary and sufficient conditions in order for backward bifurcations to occur within these models.

Undergraduate Research Assistant
University of Guelph

01/2012 – 04/2012

Achievements/Tasks

- Modified a coupled human-environment system to model the impact of social norms on individual vaccination preferences

EDUCATION

PhD of Mathematics - Mathematical Biology
University of Waterloo

09/2013 – Present   *Waterloo*

Masters of Science - Mathematical Biology
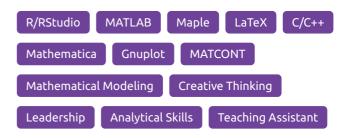McMaster University

09/2012 – 08/2013   *Hamilton*

Bachelor of Science - Mathematics
University of Guelph

09/2007 – 08/2012   *Guelph*

SKILLS

R/RStudio · MATLAB · Maple · LaTeX · C/C++ · Mathematica · Gnuplot · MATCONT · Mathematical Modeling · Creative Thinking · Leadership · Analytical Skills · Teaching Assistant

TEACHING EXPERIENCE

Lecturer for MATH 138 (01/2017 – 04/2017)
- Lecturer Calculus II for Honours Mathematics Students

AMATH 250 TA (05/2014 – 08/2017)
- Teaching Assistant for Differential Equations courses

Calculus TA (Math 127/128) (2014 – 2017)
- Teaching assistant for Calculus I/II for students majoring in Science

ACHIEVEMENTS

Graduate Experience Award (09/2013 – Present)

Best TA Award (2014 – 2015)
Award given to the top 3 teaching assistants of the year

LANGUAGES

English ●●●●○
French ●●●●○
Romanian ●○○○○

INTERESTS

Data Analysis · Banking · Veterinary Medicine · Medicine · Vaccination Policies · Tennis · Squash