Maxime Murray | Curriculum Vitae

777 Glades Rd, SE 231, Boca Raton, FL, 33431, USA | 561-297-3340 | mmurray2016@fau.edu
Webpage: http://cosweb1.fau.edu/∼mmurray24

Skills and Abilities

I have experience in teaching, programming (MATLAB, C++, C, LaTeX) and Mathematics with specific interest in dynamical systems and its application to physics or mathematic modelisation.

Experience

Graduate Teaching Assistant — Université Laval 2013 — 2015
I was working at the math help center. Where I was mostly helping students taking differential equation and multivariable calculus classes.

Graduate Teaching Assistant — Florida Atlantic University 2016 — Present
I work at the math learning center and I teach classes. I taught several classes, among them calculus, trigonometry, college algebra and linear algebra.

Education

Université Laval — Bachelor of Sciences in Mathematics 2010 — 2013
Université Laval — Master of Sciences in Mathematics 2013 — 2016
Florida Atlantic University — PhD in Mathematics 2016 — Present
I expect to graduate in December 2019.

Awards

I graduated from my master with mention of excellence for my thesis.
I have published two scientific papers, which can be found on my webpage.
I received the NSF grant DMS-1700154 and the Alfred P. Sloan Foundation grant G-2016-7320.
I got the peer review first prize among mathematics students at the 2018 GPSA poster day.
I received the Leanne and Spyros Magliveras Graduate Award from the Charles E. Schmidt College of Science.

Communication

I can communicate effectively in French and English. I gave multiple talks in various conferences and I teach to undergraduate students since 2016. I consider myself to be sociable and easy going.

References

Available upon request.

List of Publications

[1] J.D. Mireles-James and M Murray. Chebyshev-taylor parameterization of stable/unstable manifolds for periodic orbits: Implementation and applications. *International Journal of Bifurcation and Chaos*, 27(14):1730050, 2017.

[2] J.B. Van den Berg, M. Breden, J.P Lessard, and M Murray. Continuation of homoclinic orbits in the suspension bridge equation: A computer-assisted proof. *Journal of Differential Equations*, 264(5):3086–3130, 2018.