Stephen Thompson

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About me

I am a full-stack web developer living in Chicago, and currently completing the coding boot camp at Northwestern University. I also have a background in applied mathematics, with a particular focus in spatial epidemiology, mathematical economics and differential equations. I love working with the back end of web applications and am excited to apply my coding skills, together with my background in mathematics, in the private sector after several years of teaching. For fun, I like to go on bike rides with my wife Kate.

Links

Link to Professional Portfolio
`https://sthompsonchicago.github.io/My_portfolio/`

Link to Github Page
`https://github.com/SThompsonChicago`

Skills

Web Development
I am a full-stack web developer, comfortable with JavaScript, NodeJS, Express, MySQL, Handlebars and more.

Mathematics
I have a strong background in differential equations, linear algebra, mathematical modeling and real analysis. I also have past experience in optimization, numerical analysis, numerical linear algebra and probability theory.

Communication
I have excellent verbal communication skills from spending over a decade working in education. I also have excellent written communication skills and have published several scholarly articles in peer-reviewed journals.

Education

Certificate, Full-Stack Web Development
Northwestern University, expected completion December 2021

Doctor of Philosophy, Applied Mathematics
University of Maryland, Baltimore County (UMBC), 2013

Master of Science, Applied Mathematics
University of Maryland, Baltimore County, 2009

Bachelor of Arts, Mathematics
University of Maryland, Baltimore County, 2008

Professional Experience

Part-time instructor 2015-2021
University of Maryland, Baltimore County
1000 Hilltop Circle
Baltimore, MD 21250
Courses taught: partial differential equations (Math 404 four times), linear algebra (Math 221, seven times), differential equations (Math 225, three times), multivariable calculus (Math 251, three times) and geometry (Math 306). Also worked as an academic advisor for new students.
Supervisor: Brad Peercy (email address: bpeercy@umbc.edu, phone number: 410-455-2436).

High School Teacher 2019-2020
Baltimore City Public Schools
200 E. North Ave
Baltimore, MD 21210
Courses taught: Algebra II and College Readiness Mathematics.
Phone number: 443-984-2000.

Affiliate Faculty 2017-2019
Loyola University, Maryland
4501 N. Charles St.
Baltimore, MD 21210
Courses taught: Applied Calculus (MA151, once), Calculus I (MA251, twice), Calculus II (MA252, three times).
Department chair: Ethan Duckworth (email address: educkworth@loyola.edu, phone number: 410-617-2607).

Collective member 2017-2019
Alternative Press Center
2239 Kirk Ave.
Baltimore, MD 21218
I helped write and edit the Alternative Press Index, which is carried by many academic libraries and is published twice per year.
Senior Editor/Supervisor: Charles D'Adamo (email address: cdadamo@gmail.com).

Part-time instructor 2014-2016
Community College of Baltimore County
10300 Grand Central Ave
Owings Mills, MD 21117
Courses taught: statistics (Math 153, two times), college algebra (Math 163, three times), and high school algebra (Math 081, 082 and 083).
Department chair: Sarah Miller (email address: smiller10@ccbcmd.edu, phone number: 443-840-2658).

Teaching Assistant 2008-2013
University of Maryland, Baltimore County
Courses taught: calculus I (Math 151), calculus II (Math 152), and precalculus (Math 150).

Selected publications

Thompson, S. 2020. "Growth, external markets and stock-flow norms: a Luxemburg-Godley model of accumulation." *Cambridge Journal of Economics* 44(2): 417-443.

Thompson, S.: 2014. "Convergence of nonlocal diffusion models on lattices." *Journal of Mathematical Analysis and Applications* 415: 1-13.

Thompson, S. and Seidman, T. I. 2013. "Approximation of a Semigroup Model of Anomalous Diffusion in a Bounded Set." *Evolution Equations and Control Theory* 2: 173-192.

Thompson, S. 2010. "An Extension of Browder's Non-Ejective Fixed Point Theorem," *Fixed Point Theory* 11: 143-146.

Service

Volunteer Tutor 2013
Goucher Prison Education Partnership
I tutored students at the mens' prison in Jessup, Maryland.

Member, Fair Labor Standards Advisory Group 2009
University of Maryland, Baltimore County
This group reviewed labor issues at factories that produce UMBC's university-logo apparel. The group was appointed by the university president. As a member, I helped convince the administration to affiliate with the Worker Rights Consortium.

Award

Recognized for outstanding mathematics research in 2012 by the College of Natural and Mathematical Sciences, UMBC.