

# Stephen Thompson

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**Location:** Chicago, IL 60647

**Portfolio:** <https://sgthompson.herokuapp.com>

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**GitHub:** [github.com/SThompsonChicago](https://github.com/SThompsonChicago) **LinkedIn:** [linkedin.com/in/drsgthompson](https://linkedin.com/in/drsgthompson)

<b>Summary</b>	Full-stack web developer and mathematician living in Chicago. PhD in applied mathematics. Over five years of experience teaching mathematics, and three years writing code. Recently finished the full stack boot camp at Northwestern University.
<b>Technical Skills</b>	JavaScript, Node, Python, the MERN stack, MVC design, Express, React, MySQL, Handlebars, AJAX, Git, HTML, CSS, jQuery, MongoDB, NoSQL, Visual Studio, Bulma, Bootstrap and GraphQL.
<b>Soft skills</b>	Patient, innovative, and able to see the big picture.
<b>Projects</b>	<p><i>Epidemic Simulator</i></p> <p>Single-page web application created with React. Takes in user inputs, solves a system of 400 nonlinear differential equations, and displays the results as an animation in real time as the equations are being solved.</p> <p>Deployed app: <a href="https://sthompsonchicago.github.io/pandemic-simulator/">https://sthompsonchicago.github.io/pandemic-simulator/</a> GitHub repo: <a href="https://github.com/SThompsonChicago/pandemic-simulator/">https://github.com/SThompsonChicago/pandemic-simulator/</a></p> <p><i>MERN Blog</i></p> <p>This is a blog that allows a user to create an account, write blog posts and view posts by others. It was created using the MERN stack.</p> <p>Deployed app: <a href="https://vast-mountain-43651.herokuapp.com">https://vast-mountain-43651.herokuapp.com</a> GitHub repo: <a href="https://github.com/SThompsonChicago/mern-blog">https://github.com/SThompsonChicago/mern-blog</a></p> <p>More projects: <a href="https://sgthompson.herokuapp.com/portfolio">https://sgthompson.herokuapp.com/portfolio</a></p>
<b>Education</b>	<p><i>Certificate, Full-Stack Web Development</i> Northwestern University, 2021</p> <p><i>Doctor of Philosophy, Applied Mathematics</i> University of Maryland, Baltimore County (UMBC), 2013</p>

<b>Professional Experience</b>	<i>Instructor, Mathematics</i> 2015-2021 University of Maryland, Baltimore County (Baltimore, Maryland) Taught a variety of courses including ordinary and partial differential equations, linear algebra and multivariable calculus.
	<i>High School Teacher</i> 2019-2020 Baltimore City Public Schools (Baltimore, Maryland) Taught algebra to students at Forest Park High School.
	<i>Affiliate Faculty</i> 2017-2019 Loyola University, Maryland (Baltimore, Maryland) Taught a variety of undergraduate calculus courses.
<b>Selected publications</b>	Thompson, S. 2022. "The total movement of this disorder is its order': Investment and utilization dynamics in long-run disequilibrium." <i>Metroeconomica (accepted)</i> . Link: <a href="https://onlinelibrary.wiley.com/doi/abs/10.1111/meca.12377">https://onlinelibrary.wiley.com/doi/abs/10.1111/meca.12377</a> Web app: <a href="https://sthompsonchicago.github.io/macro-disequilibrium/">https://sthompsonchicago.github.io/macro-disequilibrium/</a>
	Thompson, S. 2020. "Growth, external markets and stock-flow norms: a Luxemburg-Godley model of accumulation." <i>Cambridge Journal of Economics</i> 44(2): 417-443. Link: <a href="https://academic.oup.com/cje/article-abstract/44/2/417/5644063">https://academic.oup.com/cje/article-abstract/44/2/417/5644063</a>
	Thompson, S.: 2014. "Convergence of nonlocal diffusion models on lattices." <i>Journal of Mathematical Analysis and Applications</i> 415: 1-13. Link: <a href="https://www.sciencedirect.com/science/article/pii/S0022247X14000705">https://www.sciencedirect.com/science/article/pii/S0022247X14000705</a>
	Thompson, S. and Seidman, T. I. 2013. "Approximation of a Semigroup Model of Anomalous Diffusion in a Bounded Set." <i>Evolution Equations and Control Theory</i> 2: 173-192. Link: <a href="https://www.aims sciences.org/article/doi/10.3934/eect.2013.2.173">https://www.aims sciences.org/article/doi/10.3934/eect.2013.2.173</a> Web app: <a href="https://sthompsonchicago.github.io/pandemic-simulator/">https://sthompsonchicago.github.io/pandemic-simulator/</a>