



Erik Sheagren

Educator | Math & Creative Development

An accomplished and entrepreneurial K-12 independent math educator with a unique background in cognitive science and neuroscience, my goal is to develop scalable tools that radically improve key bottlenecks in primary and secondary education.

Contact

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Education

2020

Cognitive Science, Masters

Columbia University, Teachers College

Master's Thesis: Unstoppable: A Case Study of Rita Levi-Montalcini

Department Senator of Student Senate

Member of EA Club Forecasting Team, winning 2nd place in University Forecasting Tournament

2018

Neuroscience & Philosophy (Double)

Creighton University, Honors College

Philosophy Senior Presentation: The Necessity of Science in a Liberal Arts Education

Recipient of Distinguished Neuroscience Undergraduate Award (one of three in graduating class)

Skills

- Teaching & Explanation
- Product Management
- Mathematical Cognition
- Current AI Landscape
- Writing & Communication
- Market & Scientific Research

Interests

- Cooking - Ottolenghi inspired
- Endurance - two marathons and two 500 mile bike rides
- Reading - social sciences, history
- Travel - ~35 countries, 40 states
- AI Tinkerers Group - Chicago

Experience

○ 2023-Present [Magpie Publishing](https://magpiepublishing.org), Chicago, magpiepublishing.org

Creator/Founder

- Conceptualized, designed, developed, and executed the creation, marketing, and distribution of several highly-illustrated AI book series using a variety of specialized AI's to optimize efficiency.
- Developed book production pipeline using a combination of prompt sequencing of GPT4/Dalle, Claude3, Mistral, Midjourney, and Magnific (using LangChain where possible and prudent) with relevant human oversight to create flexible, rapidly-produced, high-quality publications.
- Series include: *Magnify* (people, culture, geography, and culture of different nations), *Storytellers' Club* (increasingly automated children's books), *My City* (city-specific books for developing regional distribution channels), and (upcoming) *Brilliant Heartland* (biographies of under-rated Midwesterners like Norman Bourlough and Robert Noyce).

○ 2020 - 2023 Tutors International, Fargo & NYC

Private Tutor

- Provided custom, in-house private K-12 instruction for two homeschooling families, children aged 5 to 18.
- Increased 7th grade ACT math score from 15 to 29 after four-month immersive math study.
- Coached International Science and Engineering Fair projects, leading to international award (ISEF, 2022).
- Courses taught: AP Calculus AB (Student score: 5), AP Statistics (Student score: 5), Precalculus, College Algebra, Algebra I & II, Geometry, and Grades 8, 7, 6, 5, 3, 2, K and Pre-K math using Singapore Math curriculum.

Part-Time Market Analyst for Early-Stage Biotech Companies

- Analyzed investor pitch decks and conducted independent market research on early-stage startups focusing on Alzheimer's remediation therapy, cardiac catheters, and gene-editing to identify investment opportunities.

○ 2015-2021 On to College & Academic Approach, Omaha & NYC
ACT & SAT Instructor

- Created dynamic process to organize and engage classes for AA tutors during initial Covid outbreak.
- Developed original Science passages for proprietary diagnostic test for On to College.
- Top-rated ACT tutor selected to work with high-profile clients for On to College including U.S. Senator.

○ 2018 - 2020 Community Impact at Columbia University, NYC
Teacher Coordinator

- Co-led a team in managing logistics and curriculum development for sixteen high school equivalency test (TASC) classes, for over two hundred students across multiple semesters.

Projects

Map & Territory, '23

Author

Presented at Conference on Philosophy of Education of Children on Latent Concepts in Number Notation

4-σ, '22

Co-Creator

Daily Quant Game | 3 Questions | Answers are 95% Confidence Intervals

Creativity..., '21

Co-Author

Academic book of case studies, including of Rita Levi-Montalcini, a Nobel-winning neuroscientist