

# Ethan Brockmann

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## Programming Experience - R, Python, C++, SQL, VBA

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- Author and maintainer of the `edgedata` package on CRAN
- Author and maintainer of an internal organizational R package for safely working with our database
- Experience with R Markdown and Shiny
- Experience creating, reviewing, and updating large Excel models, often including VBA development
- University classes and data analysis in Python
- University classes building data structures such as binary trees and linked lists in C++
- Authored research paper and senior seminar papers in  $\text{\LaTeX}$

## Education

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Bachelor of Science in Mathematics. Minor in Computer Science. Mississippi State University, Starkville, MS. GPA 3.92/4.00. May 2017

Passed actuarial exams P, FM, IFM, SRM, and LTAM

## Research Experience

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Undergraduate Research Project in Graph Theory. Mississippi State University. August 2015-December 2015

- Worked with the independence polynomials of claw free graphs and trees
- Paper available here: <https://osebje.famnit.upr.si/~russ.woodroofe/ethan-brockmann.pdf>
- Sage code available here: <https://osebje.famnit.upr.si/~russ.woodroofe/ethan-brockmann.sage>

## Work Experience

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**Actuarial Analyst.** BlueCross BlueShield of Mississippi. Flowood, MS. June 2017 – Present

- Entrusted with leading the R and data science movement at the company
- Created organization's first R Markdown report, first Shiny application, and first package
- Achieved this while maintaining core actuarial work such as researching data sources and gathering data, verifying data integrity, updating actuarial models, and preparing financial, enrollment, and ad hoc reports
- Go-to analyst for data requests from the CFO and CEO
- Lead analyst on individual ACA rate filings
- Team lead for all EDGE server and risk adjustment projects
- Review experience across multiple core areas of actuarial work, including pricing, reserving, and trend

**Actuarial Student Intern.** BlueCross BlueShield of Mississippi. Flowood, MS. May 2016 – August 2016

- Assisted actuarial personnel in core actuarial functions
- Capstone project involved building member risk profiles with diagnosis codes and searching for suspected missing codes

**Math Tutor.** Mississippi State University. Starkville, MS. November 2014 – December 2015

- Provided additional help to students in historically difficult classes
- Helped one student improve 30% from test 1 to test 2

- Tutored students in algebra, trigonometry, calculus, linear algebra, basic mathematical proof classes, and chemistry

**Rock Climbing Guide.** Mississippi State University. Starkville, MS. May - August 2015

- Provided support, guidance, and belay services to patrons of the indoor climbing wall
- Entrusted with opening and closing duties

**Soft Serve Specialist.** Frostie Freeze. Fort Atkinson, WI. March - October, 2009 - 2013

- Took orders and payments, crafted treats, and performed behind-the-scenes cleaning and maintenance
- Entrusted with opening and closing duties
- Mentored less senior employees

**Field Worker.** AgVenture/Spangler Seedtech. Jefferson, WI. June - August, 2007 - 2013

- Performed a variety of field work duties involving corn and soybeans
- Supervised a team of other employees

## Other Skills

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- Attention to detail
- Strong technical review skills
- Plays well with others