Ethan Brockmann

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

- Author and maintainer of the `edgedata` package on CRAN
- Author and maintainer of an internal organizational R package for safely working with company's database
- Experience with R Markdown and Shiny
- Familiarity with git and Github workflows
- Strong SQL querying skills on large (>10,000,000 rows) data sets
- Experience creating, reviewing, and updating large Excel models, often including VBA development
- Upper level university class designing a real-use interface for Fedex with Python
- University classes building data structures such as binary trees and linked lists in C++
- Authored research paper and other senior seminar papers in $\LaTeX$ with LyX

Education

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

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

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

- Decision-maker for all things related to EDGE server and risk adjustment
- 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
- Detailed review of colleagues' technical work
- Go-to analyst for data requests from the CFO and CEO
- Steadily entrusted with more responsibility and decision-making
- Due for a promotion to senior analyst in June
- Passion for automating as many things as possible

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
- 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

- Attention to detail
- Strong technical review skills
- Experience working remote
- Independent and driven