**David Fudge**

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**EDUCATION** **Master of Engineering in Electrical Engineering** F. 2021 – present

 Iowa State University, Ames, IA

Majoring in Systems and Controls

Current Coursework:

* EE 524: Digital Signal Processing
* EE 573: Random Signal Analysis and Kalman Filtering
* EE 577: Linear Systems

 **Master of Science in Mathematics** F. 2017 – Sp. 2019

 Western Illinois University, Macomb, IL

Focus in Statistics

Integrated Baccalaureate and Master’s Degree in Mathematics (2017 – 2018)

GPA: 3.917 / 4.0

 **Bachelor of Science in Mathematics** F. 2016 – Sp. 2018

Western Illinois University, Macomb, IL

Neuroscience minor

Centennial Honors College

GPA: 3.727 / 4.0 (Major GPA: 3.886 / 4.0)



**EXPERIENCE** **Server, The Heaping Plato**                 F. 2021 – Present

Iowa State University, Ames, IA

 **Teaching Support Assistant**                 F. 2018 – Sp. 2019

Western Illinois University, Macomb, IL

Taught algebra labs

Tutored algebra, calculus, & statistics

20-25 students a semester

 **Instructor, College for Kids**  Summers 2017, 2018, 2019

Black Hawk College, Moline, IL

Taught algebra and Excel to junior high honors students

40-50 students a year



**SKILLS** Microsoft Products: Excel, Word, Outlook, PowerPoint

Languages: MATLAB, R, Python, SQL, HTML, LaTeX

Other: Teaching/Tutoring, Written and Verbal Communication, Keen Eye for Detail



**PROJECTS** *Differences in Smarties Original Rolls* Nov. 2019

Poisson regression analysis in R, report in R Shiny, additional

dashboard in Tableau

 *Customer Satisfaction Rates for Four American Airlines*  Sp. – Aug. 2019

Analysis of variance in R, report in LaTeX, and earlier version

presented to analysis of variance course at WIU

*Numerical Approximations of Particle Motion within a Torus and on a Plane* Sp. 2019

Motion within a torus and plane simulated from derived ODEs

in MATLAB, report in LaTeX, presented to graduate computational

differential equations course at WIU

*Group Theory: The Rubik’s Cube* F. 2017 – Sep. 2018

Concepts from abstract algebra used to identify possible positions

of a Rubik’s Cube; computations in GAP, report in LaTeX, and

presented to math club at WIU



**CERTIFICATION** Python – Certified Entry-Level Python Programmer (PCEP-30-01 [NP])

* Certificate ID: nLue.SJNT.XAF4



**EXTRA-** Math Club Graduate Representative   Sp. 2019

**CURRICULAR** ICTM Regional High School Math Contest 2018 – 2019

* Aided faculty in various tasks during contest



**AWARDS** Western Illinois University

* Cum Laude & University Honors Scholar 2018
* Tau Sigma Honor Society 2017 – 2018
	+ - Dean’s List 2016 – 2018

Illinois State Scholar 2014 – 2015



**SCHOLARSHIPS** Iowa State University

* Graduate Award Tuition Scholarship                        F. 2021 – Sp. 2022

Western Illinois University

* Dorothy Allen, Glenn Ayre Award, &                                                   2017 – 2018

Ronald P. Maurer Memorial Fund Scholarships

* WIU Foundation Transfer Scholarship 2016 – 2018
* Mathematics Alumni & Western Transfer Scholarships 2016 – 2017