

# 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)

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## 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

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## 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

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## 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

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**CERTIFICATION** Python – Certified Entry-Level Python Programmer (PCEP-30-01 [NP])  
 • Certificate ID: nLue.SJNT.XAF4

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**EXTRA-CURRICULAR** Math Club Graduate Representative Sp. 2019  
 ICTM Regional High School Math Contest 2018 – 2019  
 • Aided faculty in various tasks during contest

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**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

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**SCHOLARSHIPS** Iowa State University  
 • Graduate Award Tuition Scholarship F. 2021 – Sp. 2022

Western Illinois University  
 • Dorothy Allen, Glenn Ayre Award, & Ronald P. Maurer Memorial Fund Scholarships 2017 – 2018  
 • WIU Foundation Transfer Scholarship 2016 – 2018  
 • Mathematics Alumni & Western Transfer Scholarships 2016 – 2017