

# Karissa E. Palmer

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## EDUCATION

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### Colorado State University (2021-Present)

- Doctor of Philosophy, Statistics

### South Dakota State University (2019-2021)

- Master of Science, Mathematics with Statistics Specialization
- Bachelor of Arts, Spanish, *Summa cum laude*

### University of South Dakota (2015-2019)

- Bachelor of Science, Mathematics; Minors in Spanish and Education; Honors Program – Thesis with Distinction, *Summa cum laude*

## EMPLOYMENT

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### Graduate Assistant, Colorado State University, Fort Collins, CO 2021 – Present

- Graduate Research Assistant (Fall 2023 – Spring 2024)
- General Statistics, Introduction to Applied Statistics (Primary Instructor)
- Statistical Consultant (Graybill Statistical Consulting Lab, Summer 2023)

### Applied Strategist Intern, CableLabs, Louisville, CO Summer 2021

- Analyze mobile data usage to create predictive model, research relationships between major carriers in the United States

### Graduate Research Assistant, South Dakota State University, Brookings, SD 2020 – Present

- CAPITAL Card Services Statistics Research Fellow
- Investigate the structure of independent variables as weights of evidence in multivariate logistic regression

### Graduate Teaching Assistant, South Dakota State University, Brookings, SD 2019 – 2020

- College Algebra, Survey of Calculus, Calculus II

### Statistician Intern, CAPITAL Card Services, Sioux Falls, SD Summer 2019

- Create predictive models, evaluate using machine learning techniques, and combine into one action-effect model

### Tutor, University of South Dakota, Vermillion, SD 2016 – 2019

- Courses range from College Algebra to Differential Equations, and introductory Spanish

### Advanced Analytics Intern, Sanford Enterprise and Data Analytics, Sioux Falls, SD Summer 2018

- Advance research protocols for patient health data
- Introduce machine learning algorithms for practical health system problems

## RESEARCH EXPERIENCE

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### Arctic Ice Sheet Statistical Models 2023-Present

- Advisors
  - Haonan Wang, Professor and Head of Statistics Department
  - Yawen Guan, Assistant Professor
- PhD Thesis

### Variable Correlation in Logistic Regression 2020-2021

- Advisor: Tom Brandenburger, Ph.D., South Dakota State University
- Master's Research Paper

**Honey Bee and *Varroa destructor* Population Dynamics** **2018 – 2019**

- Advisor: Dan Van Peurse, Ph.D., University of South Dakota
  - Honors Thesis
  - University of South Dakota Ideafest (April 4, 2019) Vermillion, SD

**Complex Numbers, Ptolemy's Theorem, and the Law of Cosines** **2016 – 2017**

- Advisor: Dan Kemp, Ph.D., South Dakota State University
  - Mathematical Association of America National MathFest Student Presenter 2017

**OTHER ACTIVITIES**

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**Undergraduate Research Mentoring** **2024**

- Aid advising undergraduate student with research project related to my Ph.D. thesis

**University of South Dakota SERVE** **2017 – 2019**

- *Variations of Volunteering Program Chair* (2018 – 2019)
- *Adopt-A-School Participant* (2017 – 2018)

**University of South Dakota Alternative Week of Off-Campus Learning (AWOL)** **2017 – 2018**

- *Weekend Trip Site Leader* (March 27, 2018)
- *Participant*
  - Winter break 2017 in New Orleans, LA – 36 hours of service focused on environment

**University of South Dakota Math Team** **2017**

- Participate in Mathematical Association of America North Central Section Team Competition

**South Dakota State University LeadState** **Fall 2016**

- Leadership development program to cultivate natural leadership skills; nominated by faculty member

**AWARDS/HONORS**

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- Elmer E. Remmenga Scholarship in Applied Statistics (2023 – 2024)
- Programs of Research and Scholarly Excellence (PRSE) Fellowship (2021 – 2022)
- Honors Thesis with Distinction (2019)
- Pi Mu Epsilon Honor Society (2018 – Present)
  - University of South Dakota Chapter President (2018 – 2019)
- NASA Space Grant Educational Stipend Recipient, from South Dakota Space Grant Consortium (2017, 2018, & 2020)