Karissa E. Palmer

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EDUCATION

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

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

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 Peursem, 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

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

- 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)

SKILLS

- Programming: R, C++, Python
- Languages: English, Spanish