



## Gene Bernhard Kim

The Marie Anne Burkhard H&S Lecturer in Undergraduate Teaching  
Statistics

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### Bio

#### ACADEMIC APPOINTMENTS

- Lecturer, Statistics

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### Teaching

#### COURSES

##### 2024-25

- Applied Matrix Theory: MATH 104 (Win)
- Mathematics of Sports: STATS 100 (Spr)
- Probability Theory for Statistical Inference: STATS 118 (Aut, Win)
- Probability and gambling: MATH 77Q (Win, Spr)
- Why College? Your Education and the Good Life: COLLEGE 101 (Aut)

##### 2023-24

- Introduction to Statistical Methods: Precalculus: PSYCH 10, STATS 160, STATS 60 (Win)
- Probability and gambling: MATH 77Q (Win, Spr)
- Theory of Probability: STATS 116 (Aut)
- Theory of Probability I: STATS 117 (Spr, Sum)
- Why College? Your Education and the Good Life: COLLEGE 101 (Aut)

##### 2022-23

- Applied Matrix Theory: MATH 104 (Aut, Spr, Sum)
- Calculus: MATH 21 (Win)
- Calculus, ACE: MATH 21ACE (Win)
- Groups and Symmetry: MATH 109 (Spr)
- Integral Calculus of Several Variables: MATH 52 (Aut)
- Linear Algebra, Multivariable Calculus, and Modern Applications: MATH 51 (Sum)
- Probability and gambling: MATH 77Q (Aut, Win)

##### 2021-22

- Applied Matrix Theory: MATH 104 (Aut, Sum)
- Linear Algebra, Multivariable Calculus, and Modern Applications: MATH 51 (Win, Spr, Sum)

- Linear Algebra, Multivariable Calculus, and Modern Applications, ACE: MATH 51A (Spr)
- Probability and gambling: MATH 77Q (Aut)

## Publications

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### PUBLICATIONS

- **Ultrasound Lesion Detectability as a Distance Between Probability Measures** *IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL*  
Hyun, D., Kim, G. B., Bottenus, N., Dahl, J. J.  
2022; 69 (2): 732-743
- **Central Limit Theorem for Peaks of a Random Permutation in a Fixed Conjugacy Class of  $S_n$**  *ANNALS OF COMBINATORICS*  
Fulman, J., Kim, G. B., Lee, S.  
2021
- **On the joint distribution of descents and signs of permutations** *ELECTRONIC JOURNAL OF COMBINATORICS*  
Fulman, J., Kim, G. B., Lee, S., Petersen, T.  
2021; 28 (3)
- **THE SYMMETRIC GROUP, ORDERED BY REFINEMENT OF CYCLES, IS STRONGLY SPERNER** *PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY*  
Harper, L. H., Kim, G. B.  
2021; 149 (7): 2753-2761
- **A central limit theorem for descents and major indices in fixed conjugacy classes of  $S_n$**  *ADVANCES IN APPLIED MATHEMATICS*  
Kim, G. B., Lee, S.  
2021; 124
- **COVID-19 highlights the issues facing blind and visually impaired people in accessing data on the web** *W4A: Web Accessibility*  
Siu, A. F., Fan, D., Kim, G. S., Rao, H. V., O'Modhrain, S., Follmer, S.  
2021: 1-15
- **The absolute orders on the Coxeter groups  $A(n)$  and  $B_n$  are Sperner** *ELECTRONIC JOURNAL OF COMBINATORICS*  
Harper, L. H., Kim, G. B., Livesay, N.  
2020; 27 (3)