# Kenneth Corea


**Contact Information**

University of Hawai'i at Mānoa
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**Research Interests**

Functional anaylsis, topology and operator algebras. In particular, extending the theory of group property (T) to groupoids.

**Education**

**University of Hawai'i at Mānoa**

Ph.D. Mathematics, August 2022

- Dissertation Topic: Topologies on Positive Type Function on Groupoids, Weak Containment of Continuous Representations, and Property (T)
- Advisor: Rufus Willett

M.S. in Mathematics, December 2021

**University of California at Santa Cruz**

B.A. in Mathematics, January 2014
B.S. in Computer Science, January 2014

**Talks**

Washington University in St. Loius Analysis Seminar. *Positive type functions on groupoids and property (T)*, Spring 2022

University of Hawai'i Manoa Analysis Seminar. *On some types of convergence of positive type functions on groupoids*, Spring 2022.

**Teaching Experience**

| | | |
|---|---|---|
| Fall | 2022 | Lecturer, Calculus II, Linear Algebra and Differential Equations, and and Precalculus: ELementary Functions |
| Spring | 2022 | Lecturer, Calculus IV |
| Fall | 2021 | Lecturer, Calculus I |
| Spring | 2021 | Lecturer, Precalculus: Elementary Functions |
| Fall | 2020 | Teaching Assistant, Calculus I |
| Summer | 2020 | Lecturer, Calculus IV |
| Spring | 2020 | Lecturer, Calculus I |
| Fall | 2019 | Lecturer, Precalculus: Elementary Functions |
| Summer | 2019 | Lecturer, Calculus IV |
| Spring | 2019 | Teaching Assistant, Calculus I |
| Fall | 2018 | Teaching Assistant, Precalculus:Trig/Analytic Geometry |
| Spring | 2018 | Teaching Assistant, Calculus II |
| Fall | 2017 | Teaching Assistant, Calculus I |
| Summer | 2017 | Lecturer, Calculus II |
| Spring | 2017 | Teaching Assistant, Calculus II |
| Fall | 2016 | Teaching Assistant, Calculus II |
| Summer | 2016 | Lecturer, Calculus II |
| Spring | 2016 | Teaching Assistant, Precalculus:Trig/Analytic Geometry |
| Fall | 2015 | Teaching Assistant, Precalculus:Trig/Analytic Geometry |
| Summer | 2015 | Lecturer, Precalculus: Trig/Analytic Geometry |
| Spring | 2015 | Teaching Assistant, Precalculus: Trig/Analytic Geometry |

## Graduate Coursework

- ❑ Algebra
- ❑ Real/Complex Variables
- ❑ Topology
- ❑ Functional Analysis
- ❑ Partial Differential Equations
- ❑ Logic
- ❑ Recursion Theory
- ❑ Nonstandard Analysis
- ❑ Riemannian Geometry
- ❑ Representation Theory
- ❑ Geometric Group Theory
- ❑ Harmonic Analysis
- ❑ Amenability
- ❑ C*-Algebras
- ❑ K-theory
- ❑ Atiyah-Singer Index Theorem

## Relevant Skills

Languages: English, Spanish
Programming: c, python, bash, vim, git

## References

**Robin Deeley**, Assistant Professor,
University of Colorado Boulder, robin.deeley@colorado.edu.

**Erik Guentner**, Professor,
University of Hawai'i Mānoa, erik@math.hawaii.edu.

**Mirjana Jovovic**, Assistant Specialist,
University of Hawai'i Mānoa, jovovic@math.hawaii.edu.

**Rufus Willett**, Professor,
University of Hawai'i Mānoa, rufus@math.hawaii.edu.