

# Bennett RENNIER

bennett@brennier.com — <http://brennier.com>

## Employment

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- 2019 – 2020   **Math Instructor**   *University of Virginia*  
Taught university-level Calculus as the sole instructor. I was given the freedom to choose a textbook, design the curriculum, and have full control over grading.
- 2018 – 2019   **Math Teaching Assistant**   *University of Virginia*  
Served as a Teaching Assistant, primarily for Differential Equations.
- 2017 – 2017   **Mathematics Researcher**   *National Science Foundation*  
Sent to Uzbekistan to study Dynamical Systems and the degenerations of Leibniz Algebras. Look below for more details on the results of my research.

## Education

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- 2018 – 2020   **Masters of Science in Mathematics**   *University of Virginia*  
GPA: 4.00. Excelled in advanced topics at the graduate level, including Probability Theory, Advanced Statistics, Algebraic Combinatorics, Computer Algorithms, Homological Algebra, and Differential Topology.
- 2014 – 2018   **Bachelors of Science in Mathematics**   *University of Oklahoma*  
GPA: 3.88. Received an award for being the “most outstanding graduating math major.” Took courses on topics such as Linear Algebra, Object-Oriented Programming, Discrete Structures, Number Theory, and Graph Theory.

## Projects and Achievements

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- Authored a **research paper on the degenerations of Leibniz Algebras**. Received funding by the National Science Foundation to study at the National Institute of Mathematics in Tashkent, Uzbekistan. Presented my research at an international conference. The paper was published in the Journal of Geometry and Physics.
- Designed a **novel graph algorithm** for verifying the connectedness of moduli spaces. It was featured in a paper written by Huy Dang and published in the Journal of Algebra.
- Created a **popular Vim plugin** for quickly typing L<sup>A</sup>T<sub>E</sub>X code. The Github repository currently has over 100 stars and 15 forks.
- Designed, programmed, and hand-wired a **custom mechanical keyboard using C**. You can see pictures and other details of this project [here](#).
- Created a website using **HTML/CSS and Javascript**, which works across a variety of screen sizes and dimensions. You can currently view the website at <http://brennier.com/>.
- Completed the **Google Professional Certificate on Data Analysis**. This course introduced tools commonly used in the industry such as **R, SQL, and Tableau**.
- Passed the **Japanese Language Proficiency Test (Level N3)**. This exam is administered by the Japanese government and certifies an intermediate level of Japanese.