

# Tristan Holmes – Curriculum Vitae

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<b>Nationality</b>	United States	<b>Web Page</b>	<a href="https://tristanh314.github.io/">https://tristanh314.github.io/</a>

## Education

<b>2018</b>	Introduction to Scripting in Python, a 4-course specialization by Rice University on Coursera. Specialization Certificate earned on June 14, 2018
<b>2015</b>	Ph.D. in Mathematics - The University of Hawai'i at Manoa Advisor: J.B. Nation
<b>2008</b>	B.S. in Mathematics - The University of Oregon

## Professional Activities

<b>2018</b>	ALH 2018, The University of Hawai'i at Manoa, Honolulu, HI, local organizer.
<b>2018</b>	Math department University Laboratory School faculty liaison.
<b>2017</b>	MATH 111/112 OER textbook committee member.
<b>2017</b>	BLAST 2017, Vanderbilt University, Nashville, TN, presenter.
<b>2012</b>	AMS Spring Western Sectional Meeting, special sess. on univ. alg. and lattice theory, attendee.
<b>2011</b>	Workshop on Algebra and CSP's, The University of Toronto, Toronto Canada, attendee.
<b>2011</b>	Algebra Across the Borders, Yeshiva University, New York, NY, presenter.

## Research

<b>2019</b>	J.B. Nation, Gordon Okimoto, Tom Wenska, Asmeeta Achari, Tristan Holmes, Jenna Maligro, Tammy Yoshioka, Emory Zitello "A Comparative Analysis of mRNA Expression For 33 Different Cancers, Part 1: The LUST Algorithm" <a href="https://github.com/tristanh314/lust-cancer-2019/blob/master/papers/lust_2019_part_1.pdf">https://github.com/tristanh314/lust-cancer-2019/blob/master/papers/lust_2019_part_1.pdf</a>
<b>2017</b>	T. Holmes "A Lattice Theoretic Approach to Permutohedra" BLAST, 08/11/2017, Nashville, TN
<b>2016</b>	T. Holmes and J.B. Nation "Inflation of Finite Lattices Along All-or-nothing Sets" Order, 34(3), 419-440, 10.1007/s11083-016-9407-y, 2017
<b>2011</b>	T. Holmes and Kira Adaricheva "Survey on Permutohedra and Assoicahedra" <a href="http://www.mini.pw.edu.pl/~aab/THolmes.pdf">http://www.mini.pw.edu.pl/~aab/THolmes.pdf</a>
<b>2009</b>	T. Holmes, D. Kitsuwa, J.B. Nation and S. Tamagawa "Lattices of Atomic Theories in Languages Without Equality" <a href="http://www.math.hawaii.edu/~jb/theories.pdf">http://www.math.hawaii.edu/~jb/theories.pdf</a>

## Employment History

- Aug 2015 - Dec 2018** University of Hawai'i at Manoa, 2565 McCarthy Mall Keller 401A, Honolulu, HI 96822  
*Instructor, 40 hrs per week*  
Teaching undergraduate classes in the Mathematics department. Duties include creating syllabi, choosing textbooks and supplemental materials, delivering lectures, creating exams, and supervising graduate teaching assistants.
- Aug 2014 - Jul 2015** Windward Community College, 45-720 Kea'alaha Rd., Honolulu, HI 96744  
*Lecturer, 40 hrs per week*  
Teaching undergraduate and developmental classes in the Mathematics department. Duties included creating syllabi, delivering lectures, creating exams, and supervising student assistants.
- Aug 2011 - Jun 2014** University of Hawai'i at Manoa, 2565 McCarthy Mall Keller 401A, Honolulu, HI 96822  
*Graduate Teaching Assistant, 20 hrs per week*  
Supervised teaching under the guidance of faculty. Duties included grading, running recitation sections, and delivering lectures. Some courses also included designing syllabi and creating exams.
- Aug 2009 - Aug 2011** University of Hawai'i at Manoa, 2565 McCarthy Mall Keller 401A, Honolulu, HI 96822  
*SUPER-M Fellow, 20 hrs per week*  
SUPER-M was an NSF funded GK-12 outreach program coordinated by the math department. Fellows were partnered with teachers in elementary and secondary schools throughout Hawai'i. A fellow's duties consisted of assisting their partner teacher in the classroom and working with them to design lesson plans that incorporated elements the fellow's research into lessons that allow younger students to experience investigative problem solving.

## Teaching

- U. Hawai'i** MATH 100, Survey of Mathematics  
**U. Hawai'i** MATH 111, Mathematics for Elementary Teachers I  
**U. Hawai'i** MATH 112, Mathematics for Elementary Teachers II  
**U. Hawai'i** MATH 140, Precalculus  
**U. Hawai'i** MATH 161, Precalculus and Elements of Calculus  
**U. Hawai'i** MATH 215, Applied Calculus I  
**U. Hawai'i** MATH 241, Calculus I  
**U. Hawai'i** MATH 302, Introduction to Differential Equations I  
**U. Hawai'i** MATH 311, Introduction to Linear Algebra  
**U. Hawai'i** MATH 321, Introduction to Advanced Mathematics