

## Jason M. Nagaoka

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### Educational Background

- **Master of Science in Mathematics (Teaching Option)**  
Texas A&M University, Distance Education Program (Fall 2019 to present)
  - **Enrolled courses:** MATH 645 (A Survey of Mathematical Problems I, fall 2019)
- **Master of Education in Secondary Education (with Distinction)**  
Hawai'i Pacific University (Spring 2011 to Summer 2012)  
[Thesis \(PDF\)](#) – *Advanced Placement Calculus: Differences within University Instruction*  
Grade Point Average in All Courses: 4.0
- **Professional Certificate in Secondary Education**  
Hawai'i Pacific University (Fall 2009 to Fall 2010)  
Grade Point Average in All Courses: 4.0
- **Bachelor of Science in Mathematics (with Distinction)**  
University of Hawai'i at Mānoa (Fall 2005 to Spring 2009)  
Grade Point Average in All Courses: 3.85 (no letter grades lower than B)  
Grade Point Average in MATH Courses: 3.91 (no letter grades lower than B)
  - **Earned credits in MATH:** 190 (Fortran Programming), 253A (Accelerated Calculus III), 302 (Intro to Differential Eqns I), 311 (Intro to Linear Algebra), 321 (Intro to Advanced Mathematics), 331 (Intro to Real Analysis), 351 (Foundations of Euclidean Geometry), 352 (Non-Euclidean Geometries), 371 (Elementary Probability Theory), 373 (Elementary Statistics), 412 (Intro to Abstract Algebra), 414 (Operations Research: Discrete Models), 416 (Operations Research: Probabilistic Models), 471 (Probability), 472 (Statistical Inference), 480 (Senior Seminar)

### Work Experience

- **Mathematics Teacher**, Moanalua High School (July 2009 to Present)
- **Head Math Team Coach**, Moanalua High School (July 2009 to Present)  
**Assistant Math Team Coach**, Moanalua High School (2005-2006, 2007-2009)

### Leadership Positions Held

- **Mathematics Department Chair**, Moanalua High School (July 2012 to Present)
- **Jupiter Ed Coordinator**, Moanalua High School (July 2015 to Present)
- **Data Team Leader**, Moanalua High School (July 2014 to June 2019)  
*Algebra II DT (2014-15 to 2017-18), Trigonometry/Precalculus DT (2018-19)*
- **Faculty Member**, Moanalua High School Community Council (July 2011 to June 2013, July 2014 to June 2017)
- **Technology Officer/Webmaster**, O'ahu Mathematics League (August 2010 to Present)

## Courses Taught

Year	Math Workshop 9	Algebra II	Statistics/ Probability	Trigonometry/ Precalculus	Calculus	AP Calculus AB	AP Calculus BC	CAP 9	CAP 10	CAP 11	CAP 12
2019-20	1					3	1			1	
2018-19				1		2	1		1		
2017-18		1				2	1	1			
2016-17		1				2	1				1
2015-16		2				1	1			1	
2014-15		2			2		1		1		
2013-14				1	3		1	1			
2012-13				2	2		1				1
2011-12		1	3		1	1				1	
2010-11		3	1		2				1		
2009-10		4	1		1			1			

Note: Quantity indicates number of sections

## Student Performance on AP Calculus Exams

Group	Avg Score	Score of 3+	Score of 4+	Score of 5
MoHS AB Students	3.65	80.6%	60.5%	33.3%
Global AB Students	2.93	57.8%	37.8%	20.0%
MoHS BC Students	3.88	83.7%	65.1%	45.3%
Global BC Students	3.77	80.7%	61.6%	44.1%

AB results from 2016-19 exams. MoHS = 129 students. Global = 1,138,271 students.

BC results from 2014-19 exams. MoHS = 86 students. Global = 632,795 students.

## Participation at Major Calculus Workshops, Conferences, and Panels

- **Hawai'i AP Calculus Mock Reading**, April 13, 2019  
One of four co-presenters, led mock briefings for two free response questions  
Note: Similar to, but not officially affiliated with, AP's "A Day with an AP Calculus Reader" program
- **Hawai'i AP Calculus Exam: 2018 Reading**, November 10, 2018  
One of four co-presenters to share insights from the 2018 AP Reading to other AP Calculus teachers
- **ETS AP Reader**, Calculus (Kansas City, Mo.), June 11-17, 2019  
Read free response questions AB3/BC3, AB4/BC4, BC5
- **ETS AP Reader**, Calculus (Kansas City, Mo.), June 2-8, 2018  
Read free response questions BC2, AB4/BC4, BC5
- **ETS AP Reader**, Calculus (Kansas City, Mo.), June 2-8, 2017  
Read free response questions AB1/BC1, AB3/BC3, BC5

## Participation at Major Smarter Balanced Assessment Consortium Workshops, Conferences, and Panels

- **State Network Educator Workshop** (Las Vegas, Nev.), July 15-17, 2019  
*Table Lead, High School Mathematics, Claim 1, Target I (Quadratics)*
- **State Network Educator Workshop** (Portland, Ore.), June 3-5, 2019  
*Table Lead, High School Mathematics, Claim 1, Target H*
- **State Network Educator Workshop** (Portland, Ore.), February 11-13, 2019  
*Co-Author – Graphing Two-Variable Inequalities*
- **Online Reviewer**, *Guide to Developing Annotations, Grades 3-5*, October 19-29, 2018
- **State Network Educator Workshop** (Chicago, Ill.), July 16-18, 2018  
*Co-Author – Sorting Out Domain and Range*  
*Author – Hands-On: Simplifying Rational Expressions*
- **High School Mathematics CAT Item Mapping Panel** (Reno, Nev.), October 23-27, 2017
- **High School Mathematics CAT Item Review/Writing Panel** (Chicago, Ill.), April 18-20, 2017
- **Online Standard Setting Panel**, October 7-9, 2014
- **High School Mathematics Alignment Study** (Los Angeles, Calif.), March 19-20, 2014  
*One of 12 teachers selected out of 70+ applicants from Hawai'i*

## Participation at Major Hawai'i DOE Workshops, Conferences, and Panels

- **HIDOE + Smarter Balanced Item Development**
  - **Smarter Balanced Item Writing Workshops (Senior Item Reviewer)**, March-June 2019 (five sessions)  
*Responsible for authoring items for submission to Smarter Balanced*  
*Responsible for reviewing and assisting item authors with their submissions*
  - **Wisdom Walk: A High School Math Review**  
*Co-author of a workbook containing problems aligned to Smarter Balanced Assessment exams*  
*First edition: April 2019 (closed pilot, HIDOE Office of Strategy, Innovation and Performance)*
  - **Online Senior Item Reviewer**, Summer 2018 Extension Item Authoring, August-September 2018  
*Responsible for reviewing and assisting item authors with their submissions*
  - **Smarter Balanced Item Development Workshops**, March-May 2018 (three sessions)  
*Responsible for authoring items for submission to Smarter Balanced*
  - **Common Core Item Authoring Training**, October 9-13, 2017  
*Received training on how to author items for the Smarter Balanced Assessment*
- **HIDOE + Smarter Balanced Panels**
  - **Digital Library Workshop**, April-June 2019 (two sessions), January 2019 (two sessions)  
*Responsible for authoring classroom activities for submission to Smarter Balanced*
  - **High School Math Cluster Item Review Committee**, December 14, 2018
- **HIDOE 'Aiea-Moanalua-Radford Complex Area Meetings**
  - **Creating Change in the Classroom**, March-June 2019 (four sessions)  
*Participants review Hattie's Visible Learning for Mathematics, collaborate with colleagues from other schools*
- **HIDOE End-of-Course Exam Panels**
  - **Content and Fairness Data Review**, July 22, 2016 (Algebra I and II) and July 8, 2014 (Algebra II)
  - **Content and Fairness Item Review**, July 9, 2018 (Algebra I and II)
  - **Content Data Review**, July 15, 2013 (Algebra II)
  - **Fairness Data Review**, July 16-17, 2013 (Algebra II)
  - **Item Review**, March 18, 2015 (Algebra II), March 17, 2015 (Algebra I), and March 4-6, 2013 (Algebra II)
  - **Rubric Validation (and Data Review)**, July 8, 2019 (Algebra I and II), June 15, 2016 (Algebra II), June 14, 2016 (Algebra I), and June 9, 2014 (Algebra I)
  - **Standard Setting**, June 23-24, 2013 (Algebra II)
- **HIDOE Mathematics Instructional Materials Review Panel**, January 29-31, 2013

## Participation at Major Education Workshops, Conferences, and Panels

- **Moanalua High School Professional Development Conference**, April 12, 2014  
*Co-Presenter – [SBAC: Taking a Closer Look at the Grade 11 Math](#)*
- **Moanalua High School Professional Development Conference**, April 21, 2012  
*Co-Presenter/Interim Team Leader, Algebra II Data Team*
- **ETS Standard Setting Panel in Mathematics** (Princeton, N.J.), April 16-17, 2012  
*One of 20 secondary/post-secondary educators from across the U.S. to participate*

### Attendance at Major Calculus Workshops, Conferences, and Panels

- **AP Summer Institute** (Calculus BC), July 16-20, 2012  
*Presenter: Howard Alcosser*
- **AP Summer Institute** (Calculus AB), July 25-29, 2011  
*Presenter: Tansel Pope*
- **AP Summer Institute** (Calculus AB), July 19-23, 2010  
*Presenter: Larry Peterson*

### Attendance at Major Mathematics Workshops, Conferences, and Panels

- **MathFest 2017** (Chicago, Ill.), July 26-29, 2017
- **MathFest 2009** (Portland, Ore.), August 6-8, 2009
- **MathFest 2008** (Madison, Wis.), July 31-August 2, 2008

### Attendance at Major Education Workshops, Conferences, and Panels

- **Hawai'i P-20 Math Summit**, November 16, 2018
- **Hawai'i P-20 Math Summit**, November 9, 2017
- **Hawai'i Education Summit**, July 9, 2016
- **Hawai'i P-20 Math Summit**, November 13, 2015
- **Hawai'i School Empowerment Conference**, November 28-29, 2014
- **Hawai'i P-20 Math Summit**, November 8, 2014
- **Hawai'i P-20 Math Summit**, April 6, 2013
- **Hawai'i Model Schools Conference**, July 6-7, 2012
- **Model Schools Conference** (Nashville, Tenn.), June 26-29, 2011

### Awards

- **MoHS Teacher of the Month**, 2018-2019
- **MoHS Teacher of the Month**, 2016-2017
- **MoHS Teacher of the Month**, 2014-2015
- **MoHS Teacher of the Month**, 2013-2014
- **MoHS Teacher of the Month**, 2010-2011
- **MoHS Teacher of the Month**, 2009-2010
- **2005 Regents Scholar**, University of Hawai'i at Mānoa
- **2005 National Merit Scholar**, Moanalua High School

### Professional Memberships

- Hawai'i Council of Teachers of Mathematics (HCTM)
- National Council of Teachers of Mathematics (NCTM)

Last Updated: July 2019