

FAYE PASLEY SIMON

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ANALYTICAL · LEARNER · COMMAND · DEVELOPER · EMPATHY

EDUCATION

PhD, Mathematics, North Carolina State University (NCSU) May 2019
Dissertation: *Determinantal Representations, the Numerical Range, and Invariance*, Advisor: Cynthia Vinzant

BS, Mathematics, NCSU May 2014
Mathematics Honors Program, *summa cum laude*

PROFESSIONAL APPOINTMENTS

Director of the Center for the Enhancement of Teaching and Learning (CETL), May 2021–
Greensboro College (GC)
› Organize and implement programming that meet the needs and interest of College faculty staff
› Establish, develop, and strengthen relationships across campus to initiate and sustain critical dialogue
› Review faculty professional development funding in conjunction with the Dean of the Faculty

Assistant Professor of Mathematics & Director of Math Support, Aug 2019–
GC, Dept of Mathematics and the Office of Retention
› Tailor and provide support for developmental math students
› Coordinate curriculum needs of developmental and transfer-level mathematics courses
› Initiate and facilitate communication between mathematics faculty and academic support staff
› Design and deliver curriculum and course materials, grade assessments, give frequent feedback, and host office hours
› Intermediate Algebra (2 sections on-ground, 4 sections online, 120 students total)
› Senior Mathematics Seminar (1 section, 4 students total)

OTHER TEACHING EXPERIENCE

Instructor of Record, NCSU, Dept of Mathematics 2016–18
› Designed and delivered curriculum and course materials, graded assessments, gave frequent feedback, hosted office hours, and responded to student inquiries via email
› Calculus I for Scientists and Engineers (2 sections, 149 students total, coordinated with graduate student TA)
› Calculus III for Scientists and Engineers (1 section, 50 students total)

STEM Coach, STEM for Kids, Raleigh, NC Feb–Aug 2014
› Developed and directed learning modules for STEM track-out camp for elementary and middle schoolers

PROFESSIONAL DEVELOPMENT

The Inclusive STEM Teaching Project (online course) , Boston University via edX	in progress
The Humanity of Inclusive Practices (online course) , Gardner Institute Teaching and Learning Academy	in progress
Diversity, Equity and Inclusion in the Workplace Certificate , USF Muma College of Business	May 2021
Motivating Learners Virtually: Starting Strong online course , Motivate Lab and Gardner Institute	Oct 2020
Sharpening Our Vision Virtual Workshop: E-Learning and Equity in the Classroom , NC Council of Teachers of Mathematics	Aug 2020
Student Anxiety & Campus Culture Workshop , GC, CETL	Aug 2019
Graduate Student Course Development Seminar Co-organizer , NCSU	Summer 2018
NSF PRODUCT Inquiry-Based Learning Workshop , MAA Carriage House, Washington, DC	Jun 2018
Teaching and Communication Certificate , NCSU, The Graduate School	Fall 2017–Spring 2018
› Completed development series in Professional Portfolio Design and Lesson, Course, and Curriculum Design	

SERVICE AND OUTREACH

Undergraduate Academic Advisor , GC, Department of Mathematics (2 students)	Spring 2021–
Mentor to Undergraduate Leader , GC, Supplemental Instruction Program (2 students)	Fall 2019–
Student Retention Advisory Committee Member , GC, Office of Retention	Fall 2019–
Graduate Instructor Support & Tools (GIST) Committee Member , NCSU, Dept of Mathematics	2018–19
Graduate Student Algebra Seminar Co-organizer , NCSU, Dept of Mathematics	2017–18
American Mathematical Society Graduate Student Chapter President , NCSU	2017–18
Triangle Area Graduate Student Conference Lead Organizer , NCSU, Dept of Mathematics	Nov 2017
Sonia Kovalevsky Day Volunteer , NCSU, Dept of Mathematics	Apr 2017
BugFest: Math Doesn't Bug Me! Volunteer , NC Museum of Natural Sciences, Raleigh, NC	Sep 2016, 2017

HONORS AND AWARDS

Section NExT-SE Fellow , Mathematical Association of America, Southeastern Section	2021–22
STEM Fellowship , NCSU, Dept of Mathematics	2014–15
Hubert V and Mary Alice Park Scholar , NCSU, Dept of Mathematics	2013–14
Goodnight Scholar , NCSU	2010–14

PROFESSIONAL MEMBERSHIPS

Mathematical Association of America, NC Council of Teachers of Mathematics

RESEARCH EXPERIENCE

Collaborate@ICERM , Brown University, ICERM	July 2019
Nonlinear Algebra Semester Program , Brown University, ICERM	Fall 2018
Graduate Research Assistant , NCSU, Dept of Mathematics	Summers 2014–18

PAPERS

F.P. Simon and C. Vinzant, “Invariant hyperbolic curves: determinantal representations and applications to the numerical range,” (2021). preprint available at arXiv:2102.01726.

C. Hill, S. Lamboglia, and **F.P. Simon**, “Tropical convex hulls of polyhedral sets,” (2019). preprint available at arXiv:1912.01253v2.

K. Lentzos and **L.F. Pasley**, “Determinantal representation of invariant hyperbolic curves,” *Linear Algebra and its Applications*, 556 (2018), 108–130.

M. Kaufman and **L. Pasley**, “On commutators over unital rings,” *Involve: a Journal of Mathematics*, 7:6 (2014), 769–772.

PRESENTATIONS

SI Program and Math Support , GC, Joint presentation to encourage faculty participation	Nov 2020
The tropical convex hull of convex sets (poster) , Georgia Institute of Technology	Apr 2019
Determinantal representations of invariant hyperbolic plane curves	
› Real Algebraic Geometry Workshop (poster), Brown University, ICERM	Oct 2018
› SIAM Conference on Applied Algebraic Geometry, Georgia Institute of Technology	Aug 2017