

Catherine (Garner) Manley

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EDUCATION

Ph.D., Learning Sciences and Human Development, Expected May 2023

West Virginia University, Morgantown, WV

Dissertation: *A Qualitative Analysis of Early Career Teachers' Development Toward Teaching Mathematics for Social Justice*

Certificate in Women's and Gender Studies

M.A., Educational Psychology, 2018

West Virginia University, Morgantown, WV

Emphasis: Program Evaluation and Research

Thesis: *Evaluation of WVUteach: Enrollment, Retention, and Students' Intentions*

B.S., Secondary Education, 1996

West Virginia University, Morgantown, WV

West Virginia Professional Teaching Certification: Mathematics and Physics

PROFESSIONAL EXPERIENCE

Student Success Coordinator, July 2023 - Present

Office of Student Success, College of Applied Human Sciences, West Virginia University

- Provide academic advising support to undergraduate students.
- Monitor degree programs and completion and maintain student records.
- Monitor academic standing and maintain accurate and complete student files.
- Assist students through the probation, suspension, contractual readmission, and academic success plan process.
- Support students through the appeal process for academic and federal financial aid suspensions.
- Support students through the course plan of study and graduate certification process.
- Assist transfer students and students taking courses in transient through the transfer credit articulation process.
- Provide academic guidance and support to all students including – academically at-risk students, transient students, students with disabilities, students requiring accessibility services, online, in-person, etc.
- Provide information and referrals to campus and community resources available to assist students in achieving personal, educational and career goals.

Graduate Research Assistant, August 2022 – May 2023

School of Education, West Virginia University

- Managed grant activities for a 5-year, federally funded project, including data collection, documentation, presentations, and grant communications.
- Established and coordinated relationships with faculty and graduate research assistants within and beyond WVU, undergraduate assistants, and school-based teacher leaders to ensure implementation and documentation of grant activities.
- Developed a resource website for WV K-5 teachers to support their teaching of computational thinking using Code.org, including the creation of 23 videos modeling pedagogical practices.
- Developed lesson extensions integrating computational thinking throughout the curriculum with alignment to WV standards and policies.
- Designed, conducted, and monitored 6 computational thinking integration professional learning sessions for K-5 teachers participating in Project Appalachian Coders.
- Designed and conducted Family Night of Code for Fayette County elementary school families with 58 attendees.
- Transferred computational thinking assessments to an online platform to facilitate data collection and analysis.
- Monitored program implementation through classroom observations and teacher surveys.

Adjunct Instructor, May 2022 – July 2023

School of Counseling and Well Being, West Virginia University

- Taught a 6-week online undergraduate summer overview course on marriage and families, including topics on diversity in families, communication, gender roles and power, parenthood, and family stress.
- Taught a 3-week online undergraduate winter intersession course on marriage and families.
- Collaborated with faculty to revise course assessments and materials based on student feedback and research-based pedagogy in adult learning.

Graduate Teaching Assistant, August 2016 – May 2022

Department of Counseling and Learning Sciences, West Virginia University

- Taught an undergraduate learning theory course to preservice teachers covering theories and research-based best practices, including topics on transfer, context and culture, culturally relevant pedagogy, learning and the brain, metacognition, and motivation.
- Facilitated students' development of lessons and activities aligned to WV standards and policies that used theory and research-based best practices of how students learn best.
- Developed an asynchronous and a synchronous online version of the learning in the education setting course for preservice teachers.

- Collaborated with program advisors, WVU Care Team, WVU Center for Excellence in Disabilities, Teaching and Learning Commons, WVU Libraries, and WVU Writing Center to assist struggling students.
- Taught a mid-semester undergraduate learning strategies course to help students from various colleges across campus improve skills for college studies, including time management, problem analysis, personal improvement, note-taking, and study skills.
- Co-taught a WVUteach course applying active learning strategies in math and science.
- Co-taught a graduate course in the application of learning theories to counseling psychology practice.
- Supervised graduate and undergraduate students.
- Served as the interim course coordinator for two undergraduate courses.

Secondary Mathematics/Science Teacher, August 1996 – June 2022

Various Public, Private, and Virtual Schools in West Virginia, Florida, and Arizona

- Taught middle/high school mathematics and high school general science/physics in public, charter, and private schools.
- Taught virtual, asynchronous, high school mathematics courses to international and domestic students through an accredited high school.
- Continuously revised asynchronous, high school mathematics courses based on data and best practices.
- Developed and implemented a project-based mathematics curriculum for grades 6-8 integrating STEAM lessons aligned to WV standards and policies.
- Supervised, observed, and evaluated mathematics teachers in both a virtual environment and a traditional school setting.
- Led teachers in developing and implementing activities using various forms of technology.
- Streamlined a system of assessment and data collection for use in recommendations for student progression from one school year to the next.
- Utilized state assessment results to recommend program improvements.
- Assisted in the development of a county, high school science equivalency test.

Instructor/Director, January 2006 – February 2013

Sylvan Learning Center, Ahmatukee, AZ and Bridgeport/Morgantown, WV

- Managed center operations, billing records, educational records, school communications, student and teacher scheduling, teacher training and evaluation, daily individual academic plan updates for students, and regular audits of students' programs.
- Performed educational assessments and prepared reports to communicate progress to students, families, educators, and company management.
- Collaborated regularly with parents, students, teachers, and school personnel to develop trust and rapport that allowed for effective interventions.

- Advised Grades 10-Adult students in planning next steps, including test preparation, scholarship applications, and college program selection.
- Analyzed and prepared reports on center and educational metrics.
- Audited educational programs to ensure compliance with Sylvan standards.
- Collected data on college admission requirements, school policies and processes, and resources for families in need of academic assistance.
- Developed and delivered supplementary educational programs for test preparation, including Praxis for educators, TEAS test for nursing students, and ACT/SAT college preparation.
- Tutored K-Adult students in all subject areas, including reading, writing, mathematics, study skills, and homework help.

HIGHER EDUCATION TEACHING EXPERIENCE

Department of Counseling and Learning Science, West Virginia University

Adjunct Instructor

CDFS 112: Marriages and Families (May 2022 – Present)

Department of Counseling and Learning Science, West Virginia University

Course Coordinator

EDP 301: Learning in the Classroom Setting (August 2021 – December 2022)

EDP 101: Learning Strategies for Academic Success (January 2018 – May 2019)

Department of Counseling and Learning Science, West Virginia University

Graduate Instructor

EDP 301: Learning in the Classroom Setting (August 2019 – May 2022)

EDP 491: Professional Field Experience (January 2018 – May 2019)

EDP 101: Learning Strategies for Academic Success (August 2016 – May 2019)

Department of Counseling and Learning Science, West Virginia University

Co-Instructor

CPSY 710: Cognitive-Affective Bases of Behavior (August 2019 – December 2019)

UTCH 221: Knowing and Learning in Math and Science (August 2016 – December 2019)

PUBLICATIONS

Peer Reviewed Article

Garner, C., Rambo-Hernandez, K. E., Naz, A., & Lu, M. (2017, June). Improving high school math teachers' confidence and skills in assessment of engineering project-based learning. In *ASEE Annual Conference & Exposition*. <https://peer.asee.org/28489>

Technical Report

Rambo-Hernandez, K. E., & **Garner, C.** (October, 2016). *Improving high school teachers' math knowledge and skills*. Evaluation for program funded by Improving Teacher Quality Grants, West Virginia Higher Education and Policy Commission.

Poster Presentations

- Ferguson, C., **Manley, C.**, Raisa, S. A., Seam, H. J., Spitznogle, R., Stone, J. K., Curtis, R. (2022). *Researchers' interest centered systematic search (RICSS): A tool for identifying journals publishing new ideas in learning sciences*. 2022 Research Week Virtual Hallways, West Virginia University, Morgantown, WV.
- Garner, C.**, Rambo-Hernandez, K. E., Naz, A., & Lu, M. (2017). *Improving high school math teachers' confidence and skills in assessment of engineering project-based learning*. 2017 CEHS Celebration of Scholars Poster Fair, Morgantown, WV.

Paper Presentations

- Yuan, J., Brigandi, C., Rambo-Hernandez, K., & **Manley, C. L.** (2023). *A continuous computational thinking professional learning program for elementary school teachers*. Teacher Education Division, 2023 AECT International Convention, Orlando, FL.
- Garner, C.** (2017). *Improving high school math teachers' ability to assess engineering content through project-based learning*. Aspects of Engineering Literacy and Community and Industry Engagement Session, 2017 ASEE Annual Conference & Exposition, Columbus, OH.

Other Presentations

- Manley, C. (2023)**. *Lesson and Extension Demonstration*. Presentation for New River Intermediate Teachers, Oak Hill, WV.
- Manley, C. L. (2022)**. *Family night of code*. Presentation for Families of New River Primary and Intermediate Schools, Oak Hill, WV.
- Manley, C. L. (2023)**. *Lesson and Extension Demonstration*. Presentation for New River Elementary Teachers, Oak Hill, WV.
- Manley, C. L. (2023)**. *Deep dive into computational thinking using Code.org*. Presentation for New River Intermediate Teachers, Oak Hill, WV.
- Garner, C. (2013)**. *Differentiated instruction with QR readers*. 2013 West Virginia Technology Conference, Charleston, WV.

GRANTS

Project Appalachian Coders

Role: Graduate Research Assistant

Agency: Jacob K. Javits Gifted and Talented Students Education Program, U.S. Department of Education

Status: In Progress

LEADERSHIP & SERVICE

Inclusive STEM Facilitator, Inclusive STEM Teaching Project. West Virginia University (April 2022 – Present)

Peer Reviewer, International Society of Learning Sciences 2023 Conference (November 2022 – Present)

Peer Support of Teaching Mentor, Teaching and Learning Commons. West Virginia University (September 2020 – Present)

Graduate Teaching Assistant Training Mentor, Teaching and Learning Commons. West Virginia University (August 2020 – August 2022)

Peer Reviewer, Sociological Focus Journal (May 2022 – July 2022)

Coordinator, Brown Bag Luncheons, College of Education and Human Services. West Virginia University (August 2018 – May 2021)

Poster Judge, WVU Undergraduate Spring Symposium. West Virginia University (April 2019)

Poster Judge, CEHS Celebration of Scholars Poster Fair. West Virginia University (April 2018)

Respect and Protect Coordinator, East Fairmont High School, Fairmont, WV (August 2000 – December 2000)

Mathematics Textbook Adoption Committee, Marion County, Fairmont, WV (January 2000 – May 2000)

HONORS AND DISTINCTIONS

College of Education and Human Services Scholarship, College of Education and Human Services. West Virginia University (2021 – 2022)

Jeffrey C. & Karen A. Barnes Scholarship, College of Education and Human Services. West Virginia University (2020 – 2021)

Women of WVU Grant, WVU Foundation. West Virginia University (2017)

PROFESSIONAL MEMBERSHIPS

West Virginia Council for Teachers of Mathematics (2023 – Present)

Association for Educational Communications & Technology (2023 – Present)

American Society for Engineering Education (2016 – 2018, 2023 – Present)

International Society of Learning Sciences (2019 – 2021, 2023 – Present)

Northeastern Education Research Association (2016 – Present)

National Council for Teachers of Mathematics (2015 – Present)

CERTIFICATIONS

Professional Teaching Certificate, Mathematics (5-12) and Physics (9-12), West Virginia Department of Education, Charleston, WV (Permanent)

SKILLS

Computer: Microsoft Suite, Adobe Creative Suite, Google Applications, Zoom

Research: SPSS, JMP, R, Stata, Qualtrics, Kulai

Academic Platforms: Blackboard LMS, DegreeWorks, STAR Student Profiles, STAR Schedule Builder, Navigate, Banner, ARGOS