

# Catherine L. Manley, Ph.D.

Analytical • Harmony • Connectedness • Learner • Futuristic

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## EDUCATION

### Doctor of Philosophy in Learning Sciences and Human Development

#### Certificate in Women's and Gender Studies

West Virginia University, Morgantown, WV (2024)

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

Chair: Dr. Amy Kennedy

### Master of Arts in Educational Psychology

West Virginia University, Morgantown, WV (2018)

Emphasis: Program Evaluation and Research

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

Chair: Dr. Karen Rambo-Hernandez

### Bachelor of Science in Secondary Education

West Virginia University, Morgantown, WV (1996)

West Virginia Professional Teaching Certification: Mathematics and Physics

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## PROFESSIONAL EXPERIENCE

**Student Success Coordinator**, *Office of Student Success, College of Applied Human Sciences, West Virginia University* (2023 – Present)

- Provide support to undergraduate students as an Appreciative Adviser
- Provide information and referrals to campus and community resources available to assist students in achieving personal, educational, and career goals
- Assist students through the probation, suspension, contractual readmission, and financial aid appeal process
- Recognize the individual needs of students including academically at-risk students, transient students, students with disabilities, students requiring accessibility services, online, in-person, etc.
- Collaborate with advising and admissions staff in professional programs to develop resources for students pursuing professional and graduate programs
- Serve on an academic intervention team providing support to students identified by faculty through alerts
- Serve on the team to help organize Office of Student Success events
- Serve as the academic advisor for the Health and Well-being Student Organization
- Serve the university advising community through participation in subgroups for onboarding and professional development
- Pilot a differentiated care program to identify and provided increased support for high-risk students
- Developed a weekly newsletter informing over 500 students of upcoming events, job and internship opportunities, career highlights, and wellness tips
- Created drop-in sessions for priority registration which provided 7 advisors and graduate students to assist students with registration roadblocks

**Graduate Research Assistant, *School of Education, West Virginia University* (2022 – 2023)**

- 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
- Provided support to faculty in preparation of presentations and publications
- Monitored program implementation through classroom observations and teacher surveys

**Adjunct Instructor, *School of Counseling and Well Being, West Virginia University* (2022 – 2023)**

- Taught 3-week and 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, *Department of Counseling and Learning Sciences, West Virginia University* (2016 – 2022)**

- 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 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, *West Virginia, Florida, and Arizona* (1996 – 2022)**

- 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 online 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

### **Instructor/Director, *Sylvan Learning Center, Ahwatukee, AZ and Bridgeport/Morgantown, WV* (2006 – 2013)**

- 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

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## **UNIVERSITY TEACHING EXPERIENCE**

### **Instructor, College of Applied Human Sciences, West Virginia University**

CAHS 191: First-Year Experience (2023 – Present)

CDFS 110: Families Across the Lifespan (2024)

CDFS 112: Marriages and Families (2022 – 2023)

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

EDP 491: Professional Field Experience (2018 – 2019)

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

**Co-Instructor**, Department of Counseling and Learning Science, West Virginia University

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

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

**Course Coordinator**, Department of Counseling and Learning Science, West Virginia University

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

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

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## **PUBLICATIONS AND PRESENTATIONS**

### **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>

### **Other Papers and Reports**

**Manley, C. L.** (2024). A qualitative analysis of secondary mathematics teachers' development toward teaching mathematics for social justice. *Graduate Theses, Dissertations, and Problem Reports*. 12412.

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.

### **Paper Presentations**

Yuan, J., Brigandi, C., Rambo-Hernandez, K., **Manley, C. L.**, & Spencer, S. E. (2024). *The impacts of research-based computational thinking (CT) professional learning on teachers' practice efficacy and teaching*. Computer Science and Computational Thinking Session, 2024 AERA Annual Meeting, Philadelphia, PA.

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.

### **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.

### **Other Presentations**

**Manley, C. L.** & Woodrum, H. (2025). *Pivot with purpose: Advising for academic and career agility*. Presentation for NACADA Annual Conference, Las Vegas, NV.

**Manley, C. L. & Woodrum, H. (2024).** *Healthcare beyond doctors and nurses: Opening doors through proactive parallel planning*. Presentation for NACADA Annual Conference, Pittsburgh, PA.

**Manley, C. L. (2024).** *Opening Doors: Asset-based Approach to Parallel Planning*. Presentation for WVU Academic Advising Council Annual Conference, Morgantown, WV.

**Manley, C. L. (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.

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## GRANTS

### **Rooted in Resilience: Enhancing Retention Through Belonging and Peer Support (proposal 2025)**

Role: Co-Investigator

Agency: Research Grants on Reducing Inequality, William T. Grant Foundation

Amount: \$592,250 over three years

### **Putting Students First: Providing Differentiated Care to High-Risk Rural Students (proposal 2024)**

Role: Co-Investigator

Agency: Research on Advancing Rural Postsecondary Education, ECMC Foundation

Amount: \$450,000 over three years

### **Project Appalachian Coders**

Role: Graduate Research Assistant (2022-2023)

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

Amount: \$630,000 over five years

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## LEADERSHIP & SERVICE

**National Academic Advising Association (NACADA) Health Professions Advising Community Steering Committee Member** (2025 – Present)

**Academic Advising Council Executive Committee Member**, West Virginia University (2024 – Present)

**Academic Advising Council Professional Development Committee Member**, West Virginia University (2024 – Present)

**Project 168 Coach**, West Virginia University (2024 – Present)

**Academic Advisor for Health & Well-being Student Organization**, West Virginia University (2024 – Present)

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

**National Academic Advising Association (NACADA) Annual Conference Peer Reviewer** (2024)

**Advisor Onboarding Workgroup**, West Virginia University (2023 – 2024)

**International Society of Learning Sciences 2023 Conference Peer Reviewer** (2022 – 2023)

**Teaching and Learning Commons Peer Support of Teaching Mentor**, West Virginia University

2020 – 2023)

**Teaching and Learning Commons Graduate Teaching Assistant Training Mentor**, West Virginia University

2020 – 2022)

**Sociological Focus Journal Peer Reviewer** (2022)

**Brown Bag Coordinator**, College of Education and Human Services, West Virginia University (2018 – 2021)

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## HONORS AND DISTINCTIONS

**First-Year Seminar Instructor of the Year Honorable Mention**, West Virginia University (2025)

**Nicholas Evans Excellence in Advising Award Nominee**, West Virginia University (2023, 2024)

**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)

**WVU Foundation Outstanding Senior**, West Virginia University (1996)

**College of Human Resources and Education Graduation Dean's Invited Address**, West Virginia University (1996)

**William G. Monahan Award**, West Virginia University (1996)

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## PROFESSIONAL MEMBERSHIPS

**National Academic Advising Association (NACADA)** (2023 – Present)

**American Educational Research Association (AERA)** (2024 – Present)

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

**Northeastern Education Research Association (NERA)** (2016 – Present)

**Association for Educational Communications & Technology (AECT)** (2023 – 2024)

**National Council for Teachers of Mathematics (NCTM)** (2015 – 2024)

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## CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

**Certified Appreciative Advisor**, Office of Appreciative Education, Florida Atlantic University (2024)

**Appreciative Advising Institute Digital Certificate**, Office of Appreciative Education, Florida Atlantic University (2024)

**Mental Health 101 Training**, West Virginia University (2024)

**FY2024 Cybersecurity Awareness Certificate**, West Virginia University (2024)

**Meridians | Title IX Training**, West Virginia University (2024)

**Clery Act Training**, West Virginia University (2023)

**Safe Zone Training**, West Virginia University (2022)

**Trans Safe Zone Training**, West Virginia University (2022)

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

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## TECHNICAL 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