

MEGAN BOTELLO

10 West Rutherford Dr. Newark, DE 19713
mbotello@udel.edu | 435-429-2874

EDUCATION

- 2021–Present **Ph.D., Education**, expected graduation May, 2025
University of Delaware, School of Education
Learning Sciences Specialization
Advisors: Dr. Teomara Rutherford, Dr. Nancy Jordan
- 2019-2021 **B.A., Psychology**
Nevada State College
Minor in Counseling
Major GPA: 3.98
Advisor: Dr. Laura Naumann
- 2016-2018 **Associate of Science**
Southern Utah University

RESEARCH EXPERIENCE

- 2021–Present **Graduate Research Assistant**, University of Delaware
IES Fractions Lab, Dr. Nancy Jordan
- Developing an intervention for middle school students who struggle with fraction understanding.
 - Aid in preparing many aspects of the intervention through PowerPoint lessons, iPad assessments, and teacher training materials. Collecting data, overseeing undergraduate research assistants, presenting at conferences, and training teacher participants. Quantitatively and qualitatively collect, code, and interpret data, transcription, and research writing.
- 2020–2021 **Undergraduate Research Assistant**, Nevada State College
Social Psychology Lab, Dr. Laura Naumann
- Investigated gender and racial differences in faculty service work and scholarly productivity among tenure-track faculty at NSC.
 - Created and managed Qualtrics surveys, coded and interpreted qualitative data, presented at a national conference, conducted literature review for manuscript and grant proposal.
- 2020 **Undergraduate Capstone Project**, Nevada State College
What Impacts Math Anxiety: Examining Growth Mindset, Parental Support, & Teacher Support

Research under the direction of Laura Naumann, Ph.D.

- Conducted an independent research study examining how a growth mindset and positive parent/teacher interaction affect math anxiety, coordinated participant recruitment through multiple platforms, programmed online survey using Qualtrics software and analyzed data using SPSS, prepared, and presented findings through a national poster presentation.

AWARDS AND SCHOLARSHIPS

2021	Won 1st and 3rd place for my research presentations at Nevada State College
2019-2020	President's Honor List every semester at NSC (4 semesters)
2019-2020	Silver State Opportunity Grant (a merit-based scholarship; 4 semesters)
2020	Barnes and Noble Scholarship
2019	Nevada State College General Scholarship
2019-2020	Nevada State Access Grant
2019-2020	Presidents Scholarship
2016-2018	Regents Scholarship Award
2016	DES scholarship

PUBLICATIONS

Jordan, N. C., Devlin, B. L., & **Botello, M.** (2022). Core foundations of early mathematics: Refining the number sense framework. *Current Opinion in Behavioral Sciences*, 46, 101181.

Manuscripts in Preparation

Rutherford, T., **Botello, M.**, Lam A., & Schenke, K. (under review). Cross-domain within- and between-students antecedents to help seeking.

Botello, M., Rutherford, T., Guba, T.P., Dyson, N., Suchanec, H., Jordan, N. (in preparation). Teachers' use of motivational messages while teaching fractions [working title].

Miller-Cotto, D., Chawla, K., **Botello, M.**, Barbieri, C. (in preparation) Meta-analysis on motivation and executive function relations [working title].

VanGronigen, B. A., Meyers, C. V., & **Botello, M.** (in preparation). Professional learning for transformation? Educational leaders and a new teacher evaluation system [working title].

CONFERENCE PRESENTATIONS

Botello, M. (under review). College student help-seeking through utilization of professor office hours. Annual Meeting of the International Society of the Learning Sciences 2023, Montreal, PQ.

Botello, M., Rutherford, T., Guba, T.P., Dyson, N., Suchanec, H., Jordan, N. (under review). Teachers' use of motivational messages while teaching fractions [poster submission]. American Psychological Association 2023, Washington D.C.

Botello, M. (accepted). Increasing students' value for and performance in fractions through a utility value intervention [poster presentation]. Association for Psychological Science 2023, Washington D.C.

VanGronigen, B. A., Meyers, C. V., & **Botello, M.** (accepted). Professional learning for transformation? Educational leaders and a new teacher evaluation system [paper submission]. American Educational Research Association 2023, Chicago, IL.

Botello, M., Guba T.P., Dyson, N., Jordan, N. (accepted). Measuring success: How 6th graders with math learning disabilities can learn to read rulers [poster presentation]. Society for Research in Child Development 2023, Salt Lake City, UT.

Dyson, N., Jordan, N., Suchanec, H., Guba, T., **Botello, M.** (accepted) Building fraction knowledge in students who have fallen behind in math: Preliminary findings from an efficacy study [paper symposium]. Society for Research in Child Development 2023, Salt Lake City, UT.

Botello, M. (accepted). Incorporation of growth mindset in statistic textbooks [poster presentation]. Research Council on Mathematics Learning 2023, Las Vegas, NV.

Duck, K., **Botello, M.**, & Rutherford, T. (2022). Supporting preservice teacher confidence in facilitating motivation with technology using an interactive ebook [poster presentation]. American Psychological Association 2022, Minneapolis, MN.

Botello, M., Petras, R., Carrillo-Marroquin, A., Glover, M., Benson, W., & Naumann, L. P (2021). Gender differences in academic faculty workload [poster presentation]. Western Psychological Association 2021.

Carrillo-Marroquin, A., Glover, M., **Botello, M.**, Petras, R., Benson, W., & Naumann, L. P (2021). Cultural differences in perceptions of organizational justice among academic faculty [poster presentation]. Western Psychological Association 2021.

Botello, M. (2021). What Impacts Math Anxiety: Examining Growth Mindset, Parental Support, & Teacher Support. Poster presented at Nevada State College, Henderson, NV.

Botello, M., Petras, R., Carrillo-Marroquin, A., Glover, M., Benson, W., & Naumann, L. P (2021). Gender Differences in Academic Faculty Workload. Poster presented at Nevada State College, Henderson, NV.

Carrillo-Marroquin, A., Glover, M., **Botello, M.**, Petras, R., Benson, W., & Naumann, L. P (2021). Cultural Differences in Perceptions of Organizational Justice among Academic

Faculty. Poster presented at Nevada State College, Henderson, NV.

TEACHING EXPERIENCE

- | | |
|-----------|--|
| 2019–2021 | <i>Course Assistant for Elementary Algebra</i> , Nevada State College
Academic Success Center <ul style="list-style-type: none">• Created lesson plans for and facilitated supplemental instruction, developed trusting relationships with students, improved study skills, attended training on establishing peer mentor relationships, met with faculty to coordinate efforts, identified students of concern for possible intervention, increased first year retention by 30%, presented on student panel. |
|-----------|--|

SERVICE TO THE PROFESSION

- | | |
|-----------|---|
| 2022-2023 | Annual Meeting of the International Society of the Learning Sciences
Reviewer |
| 2020–2021 | Officer in NSC Psi Chi International Honor Society in Psychology
Advisor: Roberta Miranda, M.S. <ul style="list-style-type: none">• Facilitate bi-monthly meetings, plan and execute numerous club and community outreach events, member recruitment, hold induction ceremonies. |

PROFESSIONAL AFFILIATIONS

- | | |
|--------------|---|
| 2022-present | American Educational Research Association |
| 2022-present | American Psychological Association |
| 2022-present | Association for Psychological Science |
| 2022-present | Research Council on Mathematical Learning |
| 2022-present | Society for Research in Child Development |
| 2019–2020 | International Honor Society of Psychology |
| 2018 | National Society of Collegiate Scholars |

COMMUNITY SERVICE

- 2019 - Junior Achievement volunteer
- 2018 - Math and Science tutor at Cedar North, and Cedar East Elementary Schools
- 2018 - Volunteered 40 hours at Doctors' Volunteer Clinic of St. George
- awards and accomplishments

TECHNICAL SKILLS

R Studio, SPSS, Qualtrics

PERSONAL ACCOMPLISHMENTS

- 2019 – 2020 - President of the NSC Table Tennis Association
- 2019 - West Regional Women's Table Tennis Champion

2019 - Registered Behavior Technician – The Lovaas Center