PETER MOON

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EDUCATION

University of Maryland, College of Education   2020 - Present

Ph.D. Student in Teaching and Learning, Policy and Leadership
Specialization in Mathematics & Science Education
GPA: 4.0/4.0

Loyola University Maryland, School of Education   2018 - 2020

M.A.T. in Secondary Mathematics (Gr. 7-12)
GPA: 4.0/4.0

University of Pennsylvania   2013 - 2017

B.A. in Psychology, *Honors Program*
Minor: Classical Studies
GPA: 3.8/4.0, *summa cum laude*

TEACHING EXPERIENCE

University of Maryland   2020 - Present
Instructor   *College Park, MD*

- **MATH 481** (Instructor of record). Statistics for In-Service Middle School Math Teachers (Master's students). Spring 2023.
- **MATH 314** (Instructor of record). Statistics for Pre-Service Middle School Math Teachers. Fall 2020, Fall 2021, Spring 2022.
- **TLPL 423** (Guest lecturer, 5 classes). Interdisciplinary Teaching in the Middle Grades I. Fall 2022.

Archbishop Curley High School   2017 - 2020
Mathematics & Science Instructor   *Baltimore, MD*

- **Programming in C++**
- **AP Statistics**
- **Geometry 432/433**
- **Algebra II 422/423**
- **Anthony Summer Program Instructor: Pre-Algebra**
- **Summer School Instructor: Honors Algebra II, AP Statistics**

University of Pennsylvania   2016 - 2017
Undergraduate TA   *Philadelphia, PA*

- **PSYC 001: Introduction to Experimental Psychology**

RESEARCH EXPERIENCE

API Can Code   2022 - Present

Graduate Research Assistant   *University of Maryland*

- Israel-Fishelson, R., **Moon, P.F.**, Tabak, R., & Weintrop, D. (2023, June). Preparing K-12 students to meet their data: Analyzing the tools and environments used in introductory data science contexts. In *Proceedings of the 2023 Symposium on Learning, Design, and Technology*, 29-42. https://doi.org/10.1145/3594781.3594796

- **Moon, P.F.**, Israel-Fishelson, R., Tabak, R., Weintrop, D. (2023, June). The tools being used to introduce youth to data science. In *Proceedings of the 22nd Annual ACM Interaction Design and Children Conference*, 150-159. https://doi.org/10.1145/3585088.3589363

- Israel-Fishelson, R., **Moon, P.F.**, Tabak, R., & Weintrop, D. (2023). What data is in K-12 data science? An analytic approach to understanding the data used in K-12 data science courses. In *Proceedings of the 2023 International Conference of the Learning Sciences.*

Integrating Computational Thinking into Mathematics   2021 - Present
and Science Pre-Service Teacher Methods Courses   *University of Maryland*

Graduate Research Assistant

- **Moon, P.F.**, Himmelsbach, J., Weintrop, D., & Walkoe, J. (2023). Developing preservice teachers' intuitions about computational thinking in a mathematics and science methods course. *Journal of Pedagogical Research, 7*(2), 5-20. https://doi.org/10.33902/JPR.202318599

- Workshop, "Computational Thinking in Math & Science Methods Courses" for Maryland STEM Methods Instructors. **Peter Moon**, David Weintrop, & Janet Walkoe. (6/27/23).

- Presentation, Maryland Center for Computing Education (MCCE) Higher Ed. & Common Ground Conference Nov. 2022: "Updates on Embedding CT in a Math & Science Methods Course" - **Peter Moon**, David Weintrop, Janet Walkoe, Joshua Himmelsbach, & Andrew Elby (11/17/22)

- Presentation, Maryland Center for Computing Education (MCCE) Higher Ed. Summit 2022: "Embedding CT in a Math & Science Methods Course" - **Peter Moon**, David Weintrop, Janet Walkoe, Joshua Himmelsbach, & Andrew Elby (3/11/22)

NOTICE Lab   2022 - Present

Graduate Research Assistant   *University of Maryland*

- Workshop Presentation, Association of Mathematics Teacher Educators (AMTE) Conference 2022: "The Affordances of Video Annotation Tools in Video Clubs" - Janet Walkoe, Margaret Walton, **Peter Moon**, Veronica Carlan (2/11/22)

Sphero.Math   2020 - 2022

Graduate Research Assistant   *University of Maryland*

- Weintrop, D., Walkoe, J., Walton, M., Bih, J., **Moon, P.**, Elby, A., Bennett, B., & Kantzer, M. (2021). Sphero.Math: A computational thinking-enhanced fourth grade mathematics curriculum. *Computational Thinking in PreK-5: Empirical Evidence for Integration and Future Directions*, 39-46.
- Fofang, J. B., Weintrop, D., **Moon, P.F.**, & Williams-Pierce, C. (2021). Computational Bodies: Grounding Computational Thinking Practices in Embodied Gesture. In de Vries, E., Hod, Y., & Ahn, J. (Eds.), *Proceedings of the 15th International Conference of the Learning Sciences - ICLS 2021*. (pp. 171-178). Bochum, Germany: International Society of the Learning Sciences.
- Fofang, J. B., Weintrop, D., **Moon, P.F.**, & Elby, A. (2021). Thinking through Representation: Interpreting Representational Fluency Across Contexts in Computational Thinking Enhanced Activities. In de Vries, E., Hod, Y., & Ahn, J. (Eds.), *Proceedings of the 15th International Conference of the Learning Sciences - ICLS 2021*. (pp. 979-980). Bochum, Germany: International Society of the Learning Sciences.
- Presentation, Human-Computer Interaction Lab (HCIL) Symposium 2021: "Interpreting representational fluency in computational thinking enhanced math activities" - **Peter Moon**, Janet Bih, Andrew Elby, David Weintrop (5/27/21)

Academic Gaming Project   2020 - 2022

Graduate Research Assistant   *University of Maryland*

- Shokeen, E., Weintrop, D., Pellicone, A, **Moon, P.F.**, Ketelhut, D., Cukier, M., Plane, J. (2023). Defining perplexity and reflective thinking in a game-based learning environment. *Information and Learning Sciences, 124*(3/4), 110-127.
- Shokeen E., Pellicone A., Weintrop D., **Moon P. F.**, Cukier M, Ketelhut D. J., & Plane J. D. (June, 2022). "The Game was Designed to Learn to Think" – Player Perceptions of Learning in an Educational Game. In the Proceedings of the 2022 International Conference of the Learning Sciences (ICLS) (pp. 1081-1085).
- Presentation, Learning Sciences Graduate Student Conference (LSGSC) 2021: "Unpacking players' experiences within serious video games" - Ekta Shokeen, **Peter Moon** (11/14/21)

Parallel Pre-Algebra: A Proposal to Reduce Tracking   2019 - 2020

M.A.T. Action Research with Dr. Afra Hersi   *Loyola University Maryland*

Moral Judgment of Identifiable Offenders   2016 - 2017

Undergraduate Honors Thesis with Dr. Geoffrey P. Goodwin   *University of Pennsylvania*

- Poster, Psi Chi Philadelphia Research Day 2017: "Effects of identifying information on moral judgments of victims & offenders of crimes" - **Peter Moon**, Michael Palamountain, Geoffrey P. Goodwin (4/18/17)

- Poster, Penn Psychology Undergraduate Symposium 2017: "Effects of identifying information on moral judgments of victims & offenders of crimes" - **Peter Moon**, Michael Palamountain, Geoffrey P. Goodwin (4/27/17)
- Presentation, Penn Psychology Undergraduate Symposium 2017: "Effects of identifying information on moral judgments of victims & offenders of crimes" - **Peter Moon**, Michael Palamountain, Geoffrey P. Goodwin (4/28/17)

Morality & Warmth Relevance by Gender and Social Context   2015 - 2015
Independent Study with Dr. Geoffrey P. Goodwin   *University of Pennsylvania*

OTHER WORK EXPERIENCE

UMD - TLPL Department   2021 - Present
Math Praxis Tutor   *College Park, MD*

Self-Employed   2017 - Present
Private Tutor   *Various Locations*

Archbishop Curley High School   2017 - 2020
Swim Coach   *Baltimore, MD*

Mathnasium Roland Park   2017 - 2018
Instructor & Tutor   *Baltimore, MD*

VOLUNTEER EXPERIENCE

Kappa Delta Pi - UMD Chapter   2023 - 2023
Advocacy Chair   *College Park, MD*

Seizing Psych, Inc.   2018 - Present
Secretary   *Maryland*

Active Minds Penn   2014 - 2017
Board Member/Director of Communications/President   *Philadelphia, PA*

PROFESSIONAL AFFILIATIONS

Kappa Delta Pi, Honors Society in Education   2022 - Present

Association of Mathematics Teacher Educators (AMTE)   2021 - 2022

American Educational Research Association (AERA)   2020 - 2022

Phi Beta Kappa, Academic Honors Society   2017 - Present

Psi Chi, International Honors Society in Psychology   2016 - Present

PROFESSIONAL AFFILIATIONS

Maryland Educator Certificate, Mathematics Gr. 7-12   2022 - 2027

Texas Instruments T³ International Conference   March 2019
Attendee   *Baltimore, MD*

CPM National Conference   February 2019
Travel Scholarship Recipient   *San Francisco, CA*

AP Summer Institute - Statistics   Summer 2018
Participant   *Towson, MD*

CPM Academy of Best Practices   Summer 2018
Selected Participant   *Seattle, WA*

SKILLS & ASSOCIATED TECHNOLOGICAL PROFICIENCIES

- **Programming:** RStudio, C++, EduBlocks, repl.it
- **Communication & Organization:** Google Apps, Discord, Slack, Zoom
- **Writing & Publishing:** LaTeX/Overleaf, RMarkdown, Microsoft Office