

JULIA L. OLTMAN

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EDUCATION

- Ph.D. | 2018 | Lehigh University | Teaching, Learning, And Technology
- M.S. | 1997 | University Of New Hampshire | Sports Psychology & Sports Media
- B.A. | 1991 | University Of New Hampshire | English

CURRENT HIGHER EDUCATION EXPERIENCE

ADJUNCT PROFESSOR | COLLEGE OF EDUCATION | LEHIGH UNIVERSITY | 2017-PRESENT

- Courses Taught: TLT/ES 468 (Graduate Level) – Teaching & Learning with Geospatial Tools (2017, 2018, 2019, 2020, 2021)
- Research and Teaching Interests: Computational thinking, GIS, game-based learning, augmented reality, geospatial tools for teaching and learning, mobile learning, constructivist theory, social studies education
- Four scholarly publications and over twenty scholarly presentations
- Served on one dissertation committee
- Conducted several collaborative academic projects and professional development seminars with area K-12 schools

ASSISTANT ATHLETIC DIRECTOR FOR TECHNOLOGY | LEHIGH UNIVERSITY | 2009-PRESENT

- Oversee, consult, and/or advise on all technology-related projects and ensure ongoing support for multiple systems and device types in a collegiate athletics department
- Work with all coaches to enhance integration of technology into their coaching, recruiting, and administrative practices. My previous experience as a collegiate coach, player, and current role as an adjunct professor help me to understand and meet the needs of our coaching staff and teams.
- Work with administrators and staff from all areas of Athletics (such as Development, Recreation, Sports Medicine, Sports Communications, Marketing, Tickets, Compliance, Equipment, Facilities, Archiving, and Academic Support) to leverage technology to reach program goals. Through these interactions, I have come to understand how most areas of our department function in an effort to understand and meet their needs.
- Develop and oversee implementation of data security policies and procedures
- Manage inventory and new acquisitions of technology-related devices, systems, and supporting networks
- Review, vet, and negotiate contract with potential technology vendors
- Maintain relationships with various technology vendors
- Oversee the development and management of the athletics website, lehighsports.com
- Skills: HTML, iOS, Windows, Mac OS, Jump Forward, Sidearm CMS, Adobe Creative Cloud, ArcGIS Online, ESRI Story Maps, Microsoft Office, Moodle, OBS Studio, YouTube Studio, iMovie, Jira Agent, Jira Insights, Slack, various Social Media platforms. Limited knowledge of Java Script and CSS.

PREVIOUS HIGHER EDUCATION EXPERIENCE

- Director of Youth Camps/Clinics & Emerging Technologies | Lehigh University | 2002-2009
- Head Women's Soccer Coach | Lehigh University | 1997-2002
- Assistant Women's Soccer Coach | The Ohio State University | 1995-1997
- Assistant Women's Soccer Coach | University of New Hampshire | 1990-1995

UNITED STATES SOCCER FEDERATION COACHING EXPERIENCE

- Region I Olympic Development Staff Coach | 1998-2010
- PA State Coach | Gold Medal at National Championships | 1997-2010
- EPYSA Coaching Course Instructor | 2000-2005
- Southern Ohio Amateur State Coach | Silver Medal at National Championships | 1996-1997
- New Hampshire State Coach | 1992-1995

CLUB COACHING EXPERIENCE

- Southern Lehigh Soccer Club Head Coach | Boys U10-U18 | 2010-Present

CERTIFICATIONS

COACHING

- USSF A License | 2001
- NSCAA Premier Diploma | 1998
- USSF B License | 1997
- NSCAA Advanced National Diploma | 1995
- NSCAA National Diploma | 1994
- USSF D License | 1992

CURRENT CLEARANCES

- FBI Fingerprint Based Check
- PA Criminal Check
- PA Child Abuse History Certification

OTHER

- Red Cross First Aid & CPR Certification | 1997-Present
- NCAA Off-Campus Recruiting Certification | 1992 - 2002

MEMBERSHIPS

- United Soccer Coaches | 1994-Present
- American Educational Research Association (AERA) | 2017-Present

PUBLICATIONS

Hammond, T. C., **Oltman**, J. L., & Manfra, M. M. (2020). Computational Thinking and Social Studies Teacher Education: What, Why, and How. In J. Keengwe, & P. Wachira (Eds.), *Handbook of Research on Integrating Computer Science and Computational Thinking in K-12 Education* (pp. 1-16). Hershey, PA: IGI Global. doi:10.4018/978-1-7998-1479-5.ch001

Hammond, T, **Oltman**, J., & Salter, S. (2019). Using computational thinking to explore the past, present, and future. *Social Education*, 83(2), 118-122. Retrieved from <https://www.socialstudies.org/publications/socialeducation/march-april2019/using-computational-thinking-to-explore-past-present-and-future>

Hammond, T.C., & **Oltman**, J. (2019). Bridging STEM and the civic mission of social studies: Integrating spatial reasoning & computational thinking into decision-focused secondary social studies instruction. In D. Gibson & M. Ochoa (Eds.), *Research highlights in technology and teacher education 2019* (pp. 127-132). Waynesville, NC: Association for the Advancement of Computing in Education.

Bressler, D. M., **Oltman**, J. L., & Valleria, F. L. (2018). Inside, Outside, and Off-Site: Social Constructivism in Mobile Games. In J. Keengwe (Ed.), *Handbook of Research on Mobile Technology, Constructivism, and Meaningful Learning*. Hershey, PA: IGI Global. <http://doi.org/10.4018/978-1-5225-3949-0.ch001>

SCHOLARLY PRESENTATIONS

Manfra, M. M., Hammond, T. C., & **Oltman**, J. (2021, Apr 8 – 12). Leveraging Computational Thinking for Inquiry-Based Education in the Social Studies. [Virtual – Round Table Paper Session] AERA Annual Meeting [Virtual]

Oltman, J., Hammond, T.C., & Manfra, M.M. (2020, December). *The Whys of Where: Empowering Geography Instruction With Geo-Computational Thinking*. Accepted as a Presentation at the annual conference of the National Council for Geographic Education (NCGE), Online.

Hammond, T. C., Manfra, M. M., & **Oltman**, J. (2020, Apr 17 – 21) *Computational Thinking in the Social Studies: A Study on Design and Assessment* [Paper Session]. AERA Annual Meeting San Francisco, CA. <http://tinyurl.com/yxybp6v3> (Conference Canceled)

Hammond, T.C., **Oltman**, J., & Manfra, M.M. (2020, April). *Thematic Use of GIS to Teach American History: An Excerpt From Enslavement, Emancipation, and the Continuing Struggle*. Virtual presentation of a Full Paper at the at the conference of the Society for Information Technology and Teacher Education (SITE), New Orleans, LA.

Hammond, T.C., **Oltman**, J.L., & Manfra, M.M. (2019, November). *Geo-Computational Thinking in the Third Grade: Making Computational Thinking Truly “For Everyone, Everywhere”*. Paper presented at 27th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems Workshop on Geo-Computational Thinking in Education (GeoEd 2019), Chicago, IL.

Hammond, T.C., & **Oltman, J.** (2019, June). *Better Together: Teaching Social Studies with Computational Thinking and Spatial Reasoning*. Accepted as a Poster at the annual meeting of the International Society for Technology in Education (ISTE), Philadelphia, PA.

Hammond, T. & **Oltman, J.** (2019). Bridging STEM and the Civic Mission of Social Studies: Integrating Spatial Reasoning & Computational Thinking Into Decision-Focused Secondary Social Studies Instruction. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2034-2038). Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE). Retrieved March 27, 2019 from <https://www.learntechlib.org/primary/p/207979/>.

Hammond, T.C., **Oltman, J.L.**, & Alexander, R. C. (2018, March). Enhancing Early Elementary Civics Education Through Augmented Reality Games. In *Proceedings of Society for Information Technology & Teacher Education International Conference 2018* (SITE). Washington, D.C.

Oltman, J.L., & Hammond, T.C. (2017, April). "I Almost Wanted to Touch Them!" Curriculum- Embedded Game-Based Learning for Young Elementary History Education. Presented as part of a Symposium at the annual meeting of the American Educational Research Association (AERA), San Antonio, TX.

Oltman, J.L. (2017). *ARIS Games for Elementary Social Studies*. Presented at the 2017 Pennsylvania Educational Technology Expo and Conference (PETE&C), Hershey, PA.

Hammond, T. & **Oltman, J.L.** (2016). The sleeping giant awakens? Two cases in geospatial tools re-shaping curricular content in elementary social studies. In G. Chamblee & L. Langub (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2016* (pp. 1637-1640). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Oltman, J.L., & Hammond, T.C. (2016, June). *Moravian History Mystery: Elementary Game- Based Learning About Colonial America*. Presented as a Research Paper at the annual conference of the International Society for Technology in Education (ISTE), Denver, CO.

Hammond, T.C., & **Oltman, J.L.** (2016, March). *The Sleeping Giant Awakens? Two Cases in Geospatial Tools Re-Shaping Curricular Content in Elementary Social Studies*. Presented as a Paper at the conference of the Society for Information Technology and Teacher Education (SITE), Savannah, GA.

Oltman, J.L. (2016, August). *Three Games for Elementary Social Studies*. Presented at the 2016 ARIS Global Summit, Madison, WI.

Oltman, J.L. (2016, August). *Get the Data!*. Presented at the 2016 ARIS Global Summit, Madison, WI.

Oltman, J.L. & Hammond, T.C. (2015). Exploring the use of a location-based iPad augmented reality game for elementary history education. In D. Rutledge & D. Slykhuis (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference 2015* (pp. 818-821). Chesapeake, VA: Association for the Advancement of Computing in Education (AACE).

Oltman, J.L., & Hammond, T. (2015). *Moravian History Mystery: A Mobile, Digital, Augmented Reality, Game-Based Learning Experience for Young Elementary Students*. In K. Caldwell, S. Seyler, A. Ochsner, & C.

Steinkuehler (Eds.), *Games+Learning+Society Conference (GLS)* (Vol. 1, pp. 410–416). Retrieved from <http://press.etc.cmu.edu/files/GLS11-Proceedings-2015-web.pdf>

Bressler, D., & **Oltman, J.L.** (2015, August). *Putting the “AR” in Farm: Baaaad or Good?* Presented at the 2015 ARIS Global Summit, Madison, WI.

Hammond, T.C., **Oltman, J.L.**, & Mendez Martinez, D. (2015, June). *Inside, Outside, Between: Recipes for Augmented Reality in Social Studies*. Presented as a Poster at the conference of the International Society for Technology in Education, Philadelphia, PA.

Hammond, T.C., & **Oltman, J.L.** (2015, October). *Community Needs, Community Resources: A 21st Century Approach to the Elementary Social Studies Classic*. Presentation at the Teaching, Learning, and Technology Summit, Bethlehem, PA.

Oltman, J.L. & Hammond, T.C. (2015, October). *Moravian history mystery: A mobile, digital, augmented reality, geospatial, game-based learning experience for elementary students*. Poster presented at the Lehigh University College of Education Distinguished Lecture Series, Bethlehem, PA