

ERIKA FRYDENLUND, Ph.D.

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PROFILE

I am an interdisciplinary scholar whose work bridges digital humanities, participatory research, and computational methods. With over \$8M in competitively funded projects, my research focuses on migration, marginalization, cultural narratives, and misinformation, grounded in fieldwork across Europe, Africa, and the Americas. I integrate qualitative inquiry with digital tools to examine complex social systems.

EDUCATION

Old Dominion University, Norfolk, Virginia Ph.D., International Studies	2015
Title: <i>'Home was Congo': Refugees and Durable Displacement in the Borderlands of 1,000 Hills</i>	
Committee: Jennifer N. Fish, David C. Earnest, Dorian Crosby	
Old Dominion University, Norfolk, Virginia Graduate Certificate, Women's Studies	2012
Old Dominion University, Norfolk, Virginia Graduate Certificate, Modeling and Simulation	2010
Virginia Polytechnic Institute and State University, Blacksburg, Virginia M.S., Applied Statistics	2006
University of South Carolina, Columbia, South Carolina B.S., Applied Mathematics ; Cognate in Computer Science	2002

PROFESSIONAL DEVELOPMENT & CONTINUING EDUCATION

- *ICF ACC Executive Coaching Training Program, 2025-2026 (in progress)*
- *Certificate Program in Applied Generative AI*, Johns Hopkins University Whiting School of Engineering, in collaboration with Great Learning (Online), **2025**
Focus on prompt engineering, model architectures (e.g., encoder/decoder models), practical AI tools, and applied use cases in research and industry.
- *Executive Coaching Program, March 2024 – April 2025*
Received one-on-one coaching focused on leadership development, team communication, strategic decision-making, and time management for research leadership.

ACADEMIC APPOINTMENTS

Research Associate Professor, Virginia Modeling, Analysis and Simulation Center Old Dominion University, Norfolk, VA	2023-present
Research Assistant Professor, Virginia Modeling, Analysis and Simulation Center Old Dominion University, Norfolk, VA	2016-2023
Senior Project Scientist, Virginia Modeling, Analysis and Simulation Center (VMASC) Old Dominion University, Norfolk, VA	2013-2016
Adjunct Lecturer, Women's Studies Department	2015-present

Old Dominion University, Norfolk, Virginia

ACADEMIC AFFILIATIONS

Affiliate Faculty, Centre for Refugee Studies York University, Toronto, Canada	2023-present
Faculty Affiliate, Institute for Coastal Adaptation and Resilience Old Dominion University, Norfolk, VA	2024-present
Affiliate Faculty, Graduate Program in International Studies Old Dominion University, Norfolk, Virginia	2017-present

AWARDS AND DISTINCTIONS

Panel Fellow, Game Changers Academy for Advancing Research Innovation CMMI Division of the National Science Foundation	2021
1 st Place Paper – Safety & Security Track, D4R Data for Refugees Challenge Team lead, with M.Y. Sener, R. Gore, C. Boshuijzen-va Burken, E. Bozdog, & C. de Kock	2019
John R. Broderick Diversity Champion Award <i>The Office of Institutional Equity & Diversity</i> , Old Dominion University	2018
ODU Faculty Exchange Selected Participant, University of Kitakyushu, Japan	August 2018
Graduate Workshop in Computational Social Sciences Selected Participant, Santa Fe Institute	2015
Shining Star Recognition, Student-nominated teaching recognition award <i>Division of Student Engagement and Enrollment Services</i> , Old Dominion University	2015
Pay it Forward: A Workshop of Women Helping Women in International Relations Selected Participant, International Studies Association Annual Conference	2014

RESEARCH GRANTS

Total funding as PI: \$4M | as Co-PI: \$5M

Projects span forced migration, humanitarian modeling, migration governance, public health, and misinformation. Methods include participatory research, simulation modeling, surveys, and cross-cultural fieldwork. In addition, I provided methodological and social science expertise to externally funded modeling and simulation projects led by VMASC colleagues, including work on risk assessment, infrastructure degradation, and public health response.

Principal Investigator, ODU Office of Enterprise Research Initiatives Internal Research & Development funds, “Rapid Simulation Development for LVC Disaster Response Environments; AI-Assisted Narrative-to-Model Translational Framework,” July 2026 – June 2027. \$83,711. (Co-PI: Jose Padilla).

Co-PI, ODU Office of Enterprise Research Initiatives Internal Research & Development funds, “Exploring Interoperability in the AI Era: Towards M&S 2.0,” July 2026 – June 2027. \$82,452. (PI: Jose Padilla).

Co-PI, Virginia Department of Education, “VDOE Student Performance Data Validation & Analysis,” November 2025 – December 2026. \$24,711. (PI: Chris Lynch; Co-PIs: Kaleen Lawsurre).

Co-Investigator, Macon & Joan Brock Virginia Health Sciences Professional Enrichment and Growth (PEG) fund, “Bridging Disciplines: Building a Transdisciplinary Pipeline for Modern Medical Challenges,”

September 2025 – September 2026. \$12,000. (PI: Joshua Edwards; Co-Investigators: Chris Mazur, Krzysztof Rechowicz; Jose J. Padilla).

Principal Investigator, OSD Minerva Research Initiative, “Beyond the Clock: Understanding Cross-Cultural Temporal Orientation of Military Officers,” September 2024 – September 2027 (revised: March 2025). \$1.6M. (ODU Co-PIs: Jose J. Padilla, Krzysztof Rechowicz, Faryaneh Poursardar, Lee Slater, Angelica Huizar, D.E. Wittkower, Peter Schulman; Partner Institution PIs: Apostolos Spanos (University of Agder); Eteri Tsintsadze-Maass (Hampton University); Military Liaisons: Joseph Breedlove; Robert V. Gusentine).

Co-Principal Investigator, OSD Minerva Research Initiative, “Un-Resilience: Drawing Insights from Societal Collapse,” September 2024 – September 2027 (revised: March 2025). \$1.6M. (ODU PI: Jose J. Padilla; ODU Co-PIs: Krzysztof Rechowicz, Faryaneh Poursardar, Joshua Behr; Partner Institution PIs: Katherine Palcio (UniNorte), Eteri Tsintsadze-Maass (Hampton University)).

Principal Investigator, OSD Minerva Research Initiative, “What’s Missing? Innovating Interdisciplinary Methods for Hard-to-Reach Environments,” July 2022 – July 2025 (revised: February 2025). \$1.7M. (ODU Co-PIs: Jose J. Padilla (ODU VMASC), Michele Weigle (ODU Computer Science), Michael L. Nelson (ODU Computer Science), Jennifer N. Fish (ODU Women’s Studies); Partner Institution PIs: Katherine Palacio (UniNorte), Michaela Hynie (York University), Hanne Haaland (UiA), Hege Wallevik (UiA)). Independent Researchers: Zacheus Abang (South Africa); Cyrillus Swinne (Colombia).

Co-Principal Investigator, Virginia Commonwealth Cyber Initiative (CCI), “From Gap to Gain: Counter Human Smuggling by Identifying Deceptive Advertisements in Social Media,” December 2022 – December 2023. \$60,000. (PI: Faryaneh Poursardar)

Co-Principal Investigator, Old Dominion University Data Science Seed Funding, “Data Science for Social Good: Mining and Visualizing Worldwide News to Monitor Xenophobic Violence Towards Migrants and Refugees,” July 2022 – June 2023. \$38,000. (PI: Michele Weigle, ODU Computer Science).

Senior Personnel/ Mentor, National Science Foundation, “REU Site: Research Experiences for Undergraduates in Disinformation Detection and Analytics,” March 2022 – February 2025. \$323,082. (PI: Sampath Jayarathna (ODU Computer Science); co-PI: Jian Wu (ODU Computer Science); Senior Personnel/Mentors: Michele Weigle (ODU CS), Michael L. Nelson (ODU CS), Faryaneh Poursardar (ODU CS), Vikas Ganjigunte Ashok (ODU CS), Anne Perrotti (ODU Education)).

Co-Principal Investigator, US Department of Education, “Graduate Research Opportunities and Workforce Readiness in Modeling and Simulation (GROW M&S),” January 2022 – December 2024. \$1.15M (PI: Jessica Johnson (ODU VMASC); co-PIs: Jose J. Padilla, Sachin Shetty, Masud Rana, Yiannis Pangelis, Krzysztof Rechowicz, Rafael Diaz, Katherine Smith, Michael Nelson, Deri Draper-Amason, Heather Richter).

Principal Investigator, Hampton Roads Biomedical Research Consortium, “By the community, for the community: Participatory Research to Understand Disparities in Vaccine Uptake,” October 2021 – July 2022. \$100,904. (Co-PI: Alexandra Leader (EVMS), Tancy Vandecar-Burdin (ODU)).

Co-Principal Investigator, OSD Minerva Research Initiative, “Computational Framework for Assessing Absorptive Capacity,” September 2019 – September 2022. \$1.5M. (PI: Jose J. Padilla; Co-PIs: Joshua Behr and Michael Allen (ODU), Apostolos Spanos (UiA), Ioannis Spilanis (U. of Aegean), and Fred Bidandi (U. of Western Cape))

Principal Investigator, Old Dominion University Medical Modeling & Simulation Seed Funding, “Health Dynamics in Protracted Refugee Situations,” August 2017 – July 2018. \$70,000. (Co-PI: Jose J. Padilla)

Principal Investigator, Old Dominion University Program for Undergraduate Research and Scholarship, “Social Justice & Transportation Equity,” January – December 2016. \$8,086.10

Co-Principal Investigator, Virginia Department of Emergency Management, “Workshop on Long-term Degradation of Interdependent Critical Infrastructures in Hampton Roads,” January – March 2016. \$20,100. (Co-PIs: R. Michael Robinson, Barry Ezell, and Andrew J. Collins)

FIELD RESEARCH EXPERIENCE

- **Greece (Lesvos)** (2017–ongoing): Host community response to migration
- **Colombia** (2019–2024): Venezuelan migration, host communities
- **El Paso, Texas** (2022): U.S.-Mexico border migration and policy
- **Hampton Roads, Virginia** (2021–2022): Vaccine equity and public health disparities
- **South Africa** (2011; 2019): Refugee reception, citizenship, xenophobia
- **Rwanda** (2011, 2013, 2014): Displacement, health systems, refugee populations
- **Haiti** (2014): Gender-based violence, community organizing
- **Senegal** (2012): NGO engagement, political dialogue

INTERNATIONAL RESEARCH COLLABORATIONS

- **University of Agder (Norway)**: Ongoing co-authorship and collaborative fieldwork on migration and humanitarian response, including ethnographic-simulation in Lesvos.
- **York University (Canada)**: Affiliate of the Centre for Refugee Studies; co-PI on interdisciplinary projects addressing science of team science and research in hard-to-reach environments.
- **Universidad del Norte (Colombia)**: Partner in mixed-methods research on Venezuelan migration and host communities; co-led survey design and field implementation in Barranquilla and Cucuta.
- **University of the Aegean (Greece) & University of the Western Cape (South Africa)**: Co-authored qualitative, quantitative, and social simulation studies on resilience and absorptive capacity through U.S. Minerva-funded grants.
- **Hampton University (USA)**: Collaborator on interdisciplinary studies of identity, resilience, and cross-cultural dynamics, including using arts-based methods.
- **University of Luxembourg**: Digital History collaborations, with a pilot digital histories workshop held in June 2025 at UiA’s Metochi Study Center in collaboration with UiA.

TEACHING EXPERIENCE

Designed and taught graduate-level courses in refugee studies, agent-based modeling, feminist research methods, and international studies research methods. Supervised **40 funded research assistants** (12 BA, 12 MA, 16 PhD); **17 direct research assistant supervisions** (5 Bachelor’s; 6 Master’s; 8 PhD). **Chaired/Chairing 8 graduate theses/dissertations**; served on 11 graduate thesis/dissertation committees.

(* Identifies courses I designed)

*Introduction to Research Methods in International Studies (Graduate)	2017-2025
*Refugee Studies: Women on the Move (Graduate: Women’s/International Studies)	2022-2023
*Introduction to Agent-based Modeling (Graduate)	2021; 2024
Modeling & Simulation in the Life Sciences (Graduate, co-taught seminar)	2021
Advanced Statistical Techniques for International Studies (Graduate)	2018

*Refugee Studies (Graduate)	2016; 2026
Feminist Research Methodology (Undergraduate/Graduate)	2015; 2017
*Gender & Migration (Graduate, co-taught seminar)	2011
Introduction to Women's Studies (Undergraduate)	2011
Statistics for Decision-making (Undergraduate)	2008
Pre-Algebra, Algebra, Pre-Calculus, Calculus (Undergraduate)	2007
English as a Second Language (High School)	2002-2005

Service on Thesis Committees (Ongoing)

Caylin Smith (MA) International Studies, Old Dominion University (Chair)	2026
Bnar Mustafa (Ph.D.) English, Old Dominion University	2026
Gabrielle Wilson (MA) International Studies, Old Dominion University	2026
Guljannat Huseynli (Ph.D.) International Studies, Old Dominion University (Chair)	2027
Lydia Cleveland, Ph.D. International Studies, Old Dominion University (Chair)	2027
Lola Akintan, Ph.D. International Studies, Old Dominion University (Chair)	2026
Iryna Zhuchenko, Ph.D. International Studies, Old Dominion University	2026
Himarsha Jayanetti, Ph.D. Computer Science, Old Dominion University	2027

Service on Thesis Committees (Completed)

Mel Miller-Felton, Ph.D. International Studies, Old Dominion University (Chair)	2025
Imran Khan, Ph.D. International Studies, Old Dominion University	2024
Travis Holmes, Ph.D. International Studies, Old Dominion University (Chair)	2023
Mahfoudha Sid'Elmine, Ph.D. International Studies, Old Dominion University (Chair)	2023
Sarah Nelson, M.A. International Studies, Old Dominion University	2022
Madison Gonzalez, M.A. International Studies, Old Dominion University (Chair)	2021
Rebecca Law, Ph.D. International Studies, Old Dominion University	2021
Shelby Mertens, M.A. International Studies, Old Dominion University (Chair)	2021
Alam, Sawood, Ph.D. Computer Science, Old Dominion University	2020
Mackenzie Clark, M.A. International Studies, Old Dominion University (Chair)	2020
Monica Reyes, Ph.D. English, Old Dominion University	2020
Luz E. Diaz, M.A. International Studies, Old Dominion University (Chair)	2019
Bnar Mustafa, M.A. Humanities, Old Dominion University	2018
Andrew Garber, M.A. International Studies, Old Dominion University	2018
Ashley Giraldi, M.A. Applied Sociology, Old Dominion University	2016
Moriah Schumpert, M.A. Humanities, Old Dominion University	2016

PUBLICATIONS

(* Identifies Students)

Peer-Reviewed Journal Articles

- Llinás, Brian,* Jose J. Padilla, Humberto Llinás, & Katherine S. Palacio. (2026). "Modeling Rank Distribution and the Relative Importance Factor Index in Discrete Power-Law Models: Application to Social Resilience using the Scopus Database." *Mathematics*. Vol 14(6). DOI:10.3390/math14060966
- Romero, Liss D.*, Katherine Palacio, Zacheous Ako Abang, Valeria Silgado,* Humberto Llinas, Leidy González,* **Erika Frydenlund**, Daniel Bolivar,* & Jose J. Padilla. (2026). "Social Safety and Social Security: Validating Context-Specific Instruments for Slums." *Social Indicators Research* 182(1). DOI: 10.1007/s11205-025-03732-5

- Botello, Jhon G.*, Katherine Palacio, **Erika Frydenlund**, Humerto Llinás, and José J. Padilla. (2024). "Adapting and Validating a Survey to Assess Host Communities Support for Migration." *Social Indicators Research*. Vol. 174. DOI: 10.1007/s11205-024-03397-6
- Frydenlund, Erika**, Joseph Martínez*, Jose J. Padilla, Katherine Palacio, and David Shuttleworth*. (2024) "Modeler in a Box: How Can Large Language Models Aid in the Simulation Modeling Process?" *SIMULATION*. Vol 100(7). doi:[10.1177/00375497241239360](https://doi.org/10.1177/00375497241239360)
- Romero, Liss D.*, Jose J. Padilla, Katherine Palacio, and **Erika Frydenlund**. (2024). "Mapping cooperation: insights into Colombia's humanitarian response to migration from Venezuela". *Frontiers in Human Dynamics: Dynamics of Migration and (Im)Mobility*, 6. <https://doi.org/10.3389/fhumd.2024.1345110>
- Lynch, Christopher J., E.J. Jensen, Virginia Zamponi, Kevin O'Brien, **Erika Frydenlund**, & Ross Gore. (2023) "A structured narrative prompt for prompting narratives from Large Language Models: Sentiment assessment of ChatGPT-generated narratives and real tweets." *Future Internet*, 15, 375. DOI: 10.3390/fi15120375.
- Sa, Lydia Cleveland* and **Erika Frydenlund**. (2023) "The shortfalls of vulnerability indexes for public health decision-making in the face of emergent crises: The case of COVID-19 vaccine uptake in Virginia." *Frontiers in Public Health. Women in Science: Public Health Policy 2022*. Vol 11. <https://doi.org/10.3389/fpubh.2023.1042570>
- Collins, Andrew J., **Erika Frydenlund**, Christopher J. Lynch, & R. Michael Robinson. (2022) "Acceptance sampling to aid in the verification of computational simulations." *International Journal of Modeling, Simulation, and Scientific Computing*, DOI:10.1142/s1793962322500441 (pre-print available at: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3373344)
- Frydenlund, Erika**. (2021). "Modeling and Simulation as a Bridge to Advance Practical and Theoretical Insights about Forced Migration Studies." *Journal on Migration and Human Security*. DOI: 10.1177/23315024211035771
- Frydenlund, Erika** and Christa de Kock (2020). "Agent-Based Modeling Within Forced Migration Research: A Review and Critique." *Refugee Review*. Vol. 4.
- Collins, Andrew J. and **Erika Frydenlund**. (2017). "Strategic group formation in agent-based simulation." *Simulation: Transactions of the Society for Modeling and Simulation International*. DOI: 10.1177/0037549717732408.
- Elzie, Terra*, **Erika Frydenlund**, Andrew J. Collins, and R. Michael Robinson. (2016). "Panic that Spreads: Socio-Behavioral Contagions in Pedestrian Evacuations." *Transportation Research Record: Journal of the Transportation Research Board*. No. 2586. DOI: 10.3141/2586-01.
- Collins, Andrew J., **Erika Frydenlund**, R. Michael Robinson and Meçit Cetin (2015). "Exploring a Toll Auction Mechanism Enabled by Vehicle-To-Infrastructure Technology." *Transportation Research Record: Journal of the Transportation Research Board*. 2530: 106-113. ISSN: 0361-1981
- Collins, Andrew J., Peter Foytik, **Erika Frydenlund**, R. Michael Robinson, and Craig A. Jordan (2015). "Generic Incident Model for Investigating Traffic Incident Impacts on Evacuation Times in Large-Scale Emergencies." *Transportation Research Record: Journal of the Transportation Research Board*, 2459: 11-17.
- Elzie, Terra*, **Erika Frydenlund**, Andrew Collins, and R. Michael Robinson. (2015). "Conceptualizing Intra- and Inter-Group Dynamics within a Controlled Crowd Evacuation." *Journal of Emergency Management*. 13(2): 109-120.

Peer-Reviewed Conference Papers

- Huseynli, Guljannat* and **Erika Frydenlund**. (2026). "The Efficiency-Equity Tradeoff in AI-Enabled Humanitarian Information Systems: Toward an Intersectional Governance Audit Framework." *ISCRAM 2026 Conference Proceedings –International Conference on Information Systems for Crisis Response and Management*. The Hague, The Netherlands.

- Botello, Jhon G.* , Brian Llinas* , Jose J. Padilla, & **Erika Frydenlund**, "Toward Automating System Dynamics Modeling: Evaluating LLMs in the Transition from Narratives to Formal Structures," *2025 Winter Simulation Conference (WSC)*, Seattle, WA, USA, December 2026.
- Martínez, Joseph* , Brian Llinas* , Jhon G. Botello* , Jose J. Padilla, & **Erika Frydenlund**, "Enhancing GPT-3.5's Proficiency in NetLogo Through Few-Shot Prompting and Retrieval-Augmented Generation," *2024 Winter Simulation Conference (WSC)*, Orlando, FL, USA, 2024, pp. 666-677, DOI: 10.1109/WSC63780.2024.10838967.
- Brian Llinas* , Guljannat Huseynli* , Erika Frydenlund, Katherine Palacio, Humberto Llinas, & Jose J. Padilla. (2023). "Assessing Media's Representation of Frustration Towards Venezuelan Migrants in Colombia." In R. Thomson, S. Al-Khateeb, A. Burger, P. Park, & A. A. Pyke, *Social, Cultural, and Behavioral Modeling: SBP-BRiMS 2023*. (Vol. 14161). Cham: Springer International Publishing. DOI: https://doi.org/10.1007/978-3-031-43129-6_13
- Domson, Obed* , Jose J. Padilla, Guhoy Song, **Erika Frydenlund**. (2023). A Bayesian Approach of Predicting the Movement of Internally Displaced Persons. In: Thomson, R., Al-khateeb, S., Burger, A., Park, P., A. Pyke, A. (eds) *Social, Cultural, and Behavioral Modeling: SBP-BRiMS 2023*. Lecture Notes in Computer Science, vol 14161. Springer, Cham. https://doi.org/10.1007/978-3-031-43129-6_24
- Clark, Mackenzie* , **Erika Frydenlund**, & Jose J. Padilla. (2021). Network Structures and Humanitarian Need. In R. Thomson, M. N. Hussain, C. Dancy, & A. Pyke (Eds.), *Social, Cultural, and Behavioral Modeling: SBP-BRiMS 2021*. (Vol. 12720, pp. 214-223). Cham: Springer International Publishing. DOI: https://doi.org/10.1007/978-3-030-80387-2_21
- Yesilbas, Veysel, Jose J. Padilla, & **Erika Frydenlund**. (2021). An Analysis of Global News Coverage of Refugees Using a Big Data Approach. In R. Thomson, M. N. Hussain, C. Dancy, & A. Pyke (Eds.), *Social, Cultural, and Behavioral Modeling: SBP-BRiMS 2021* (Vol. 12720, pp. 111-120). Cham: Springer International Publishing. DOI: https://doi.org/10.1007/978-3-030-80387-2_11
- Fretz, Alexander L.* , Jose J. Padilla, & **Erika Frydenlund**. (2021). The Integrated Game Transformation Framework and Cyberwar: What 2x2 Games Tell Us About Cyberattacks. In R. Thomson, M. N. Hussain, C. Dancy, & A. Pyke (Eds.), *Social, Cultural, and Behavioral Modeling: SBP-BRiMS 2021* (Vol. 12720, pp. 174-183). Cham: Springer International Publishing. DOI: https://doi.org/10.1007/978-3-030-80387-2_17
- Hanne Haaland, Hege Wallevik, **Erika Frydenlund**, & Jose J. Padilla. (2020). "Modelers and Ethnographers as Co-Creators of Knowledge: Do We Belong Together?" In Amanda Hughes, Fiona McNeill, & Christopher W. Zobel (Eds.), *ISCRAM 2020 Conference Proceedings – 17th International Conference on Information Systems for Crisis Response and Management* (pp. 1113–1121). Blacksburg, VA (USA): Virginia Tech. Accessible online: https://idl.iscram.org/files/hannehaaland/2020/2301_HanneHaaland_etal2020.pdf
- Frydenlund E.**, Padilla J., Haaland H., Wallevik H. (2020) "The Rise and Fall of Humanitarian Citizen Initiatives: A Simulation-Based Approach." In: Thomson R., Bisgin H., Dancy C., Hyder A., Hussain M. (eds) *Social, Cultural, and Behavioral Modeling*. SBP-BRiMS 2020. Lecture Notes in Computer Science, vol 12268. Springer, Cham. https://doi.org/10.1007/978-3-030-61255-9_25
- Salimi, Khadijeh* , **Erika Frydenlund**, Jose J. Padilla, Hanne Haaland, and Hege Wallevik (2019). "The Role of Elites in the Diffusion of Social Norms of Humanitarianism." In *Proceedings of the Annual Simulation Symposium*, 1-12. Tucson, Arizona: Society for Computer Simulation International. DOI: 10.23919/SpringSim.2019.8732925

- Salimi, Khadijeh*, **Erika Frydenlund**, Jose J. Padilla, Hege Wallevik, and Hanne Haaland (2018). "How Does Humanitarianism Spread? Modeling the Origins of Citizen Initiatives Through Norm Diffusion." Proceedings of the 2018 Winter Simulation Conference. Gothenburg, Sweden. December 9-12. DOI:10.1109/WSC.2018.8632287
- Frydenlund, Erika**, Peter Foytik, Alain Ouattara, and Jose J. Padilla (2018). "Where Are They Headed Next? Modeling Emergent Displaced Camps in the DRC Using Agent-Based Models." Proceedings of the 2018 Winter Simulation Conference. Gothenburg, Sweden. December 9-12. DOI: 10.1109/WSC.2018.8632555
- Padilla, Jose J., **Erika Frydenlund**, Hege Wallevik, and Hanne Haaland (2018). "Model Co-Creation from a Modeler's Perspective: Lessons learned from the collaboration between ethnographers and modelers." In: Thomson R., Dancy C., Hyder A., Bisgin H. (eds) *Social, Cultural, and Behavioral Modeling*. SBP-BRiMS 2018. Lecture Notes in Computer Science, vol 10899. Springer, Cham. DOI: 10.1007/978-3-319-93372-6_8
- Frydenlund, Erika** and Jose J. Padilla (2017). "Modeling the impact of protraction on refugee identity." In: Lee D., Lin YR., Osgood N., Thomson R. (eds) *Social, Cultural, and Behavioral Modeling*. SBP-BRiMS 2017. Lecture Notes in Computer Science, vol 10354. Springer, Cham. DOI: https://doi.org/10.1007/978-3-319-60240-0_25
- Vernon-Bido, Daniele*, **Erika Frydenlund**, Jose J. Padilla, and David C. Earnest (2017). "Durable solutions and potential protraction: The Syrian refugee case." Proceedings of the 2017 Spring Simulation Multi-Conference. Virginia Beach, VA. April 23-26.
- Frydenlund, Erika**, Jose J. Padilla, and David C. Earnest (2017). "A theoretical model of identity shift in protracted refugee situations." Proceedings of the 2017 Spring Simulation Multi-Conference. Virginia Beach, VA. April 23-26.
- Collins, Andrew and **Erika Frydenlund** (2016). "Agent-based modeling and Strategic group formation: A refugee case study." Proceedings of the 2016 Winter Simulation Conference. Washington, D.C. December 11-14.
- Collins, Andrew and **Erika Frydenlund**. (2016). "Strategic Group Formation in Agent-based Simulation." Prepared for the 2016 Spring Simulation Multi-Conference. Pasadena, CA: April 2016.
- Erika Frydenlund**, Andrew J. Collins, Craig A. Jordan, Peter B. Foytik, and R. Michael Robinson. (2016). "When the money runs dry: A system dynamics approach to critical infrastructure investment." Prepared for the 2016 Spring Simulation Multi-Conference. Pasadena, CA: April 2016.
- Collins, Andrew, **Erika Frydenlund**, Terra Elzie*, and R. Michael Robinson. (2015). "Agent-based Pedestrian Evacuation Modeling: A one-size fits all approach?" Prepared for the 2015 Spring Simulation Multi-Conference/Agent-Directed Simulation (ADS) Symposium. Alexandria, VA: April 2015.
- Collins, Andrew, **Erika Frydenlund**, Terra Elzie*, and R. Michael Robinson. (2015). "Group Dynamics and Exit-blocking Behaviors: A look at pedestrian modeling evacuations." Prepared for the Transportation Research Board 2015 Annual Meeting. Washington, D.C.: January 2015.
- Collins, Andrew, **Erika Frydenlund**, R. Michael Robinson, Mecit Cetin. (2015). "Exploring a Toll Auction Mechanic Enabled by Vehicle-to-Infrastructure Technology." Prepared for the Transportation Research Board 2015 Annual Meeting. Washington, D.C.: January 2015.
- Frydenlund, Erika**, Terra Elzie*, Andrew Collins, and R. Michael Robinson. (2014). "A Hybridized Approach to Validation: The Role of Sociological Research Methods in Pedestrian Modeling." *Transportation Research Procedia* 2(0): 697-705.
- Collins, Andrew, Terra Elzie*, **Erika Frydenlund**, and R. Michael Robinson. (2014) "Do Groups Matter? An Agent-based Modeling Approach to Pedestrian Egress." *Transportation Research Procedia* 2(0): 430-435.

Manuscripts Under Review

- Martínez, Joseph, Melissa Miller-Felton, Jose J. Padilla, Erika Frydenlund, & Katherine Palacio. "Multidimensional Analysis of Social Discourse on Twitter (X) around Venezuelan Migration in Colombia." (January 9, 2026) – under revise & resubmit at *PLOS ONE*.
- Botello, Jhon G., Jose J. Padilla, Erika Frydenlund, Krzysztof Rechowicz, & Eric Weisel. "How can AI find my model? A model-finding experimental study considering data formats, embeddings and retrieval strategies." (April 7, 2026) – under review at *2026 Winter Simulation Conference*.
- Botello, Jhon G.,* Firuzan Melike Sümertas, Jose J. Padilla, Christine Philliou, Erika F. Frydenlund, & Adam Anderson. "Reconstructing Migratory Movements from Ottoman Census Registers: An AI-Driven Approach." (December 29, 2025) – under review at *Journal of Digital History*.
- Silgado, Valeria,* Humberto Llinas, Zacheous Ako Abang, Katherine Palacio, Erika Frydenlund, Jose J. Padilla, Liss D. Romero, Leidy Gonzalez, & Daniel Bolivar. "Social Cohesion, Community Resilience, and Subjective Well-Being in a South African Slum: A Structural Equation Modeling Approach" (July 15, 2025) – under review at *Social Indicators Research*
- Gonzalez, Madison* and **Frydenlund, Erika**. "Discomfort in Public Spaces of Appearance: An examination of water security in the Western Cape around the Day Zero Drought" (May 11, 2022). Available at SSRN: <https://ssrn.com/abstract=4107942> (Preprint).
- Frydenlund, Erika**, Jose J. Padilla, Madison Gonzalez*, Veysel Yesilbas. "Which countries drive the news about refugees?" (June 6, 2022) – under review

Book Chapters

- Frydenlund, Erika**, Hanne Haaland, Jose J. Padilla, Hege Wallevik (alphabetical). (2023). "Citizen Initiatives in Humanitarian Aid: Lesbos, Greece as a case in bottom-up humanitarian assistance mobilization" In H. Haaland, S. Kinsbergen, L. Schulpen, and H. Wallevik (Eds.), *The Rise of Small-Scale Development Organisations: The Emergence, Positioning, and Role of Citizen Aid Actors*.
- Frydenlund, Erika** and Jose J. Padilla. (2022). "Opportunities and Challenges of using Computer-Based Simulation in Migration and Displacement Research: A Focus on Lesbos, Greece." In K. Grabska, and C. Clark-Kazak (Eds.), *Documenting Displacement: Questioning Methodological Boundaries in Forced Migration Research*. Montreal, Canada: McGill-Queen's University Press. ISBN: 9780228008330
- Frydenlund, Erika**, Meltem Y.Şener, Ross Gore, Christine Boshuijzen-van Burken*, Engin Bozdog, & Christa de Kock* (2019). "Characterizing the Mobile Phone Use Patterns of Refugee Hosting Provinces in Turkey." In A. A. Salah, A. Pentland, B. Lepri, & E. Letouzé (Eds.), *Guide to Mobile Data Analytics in Refugee Scenarios: The 'Data for Refugees Challenge' Study*. Switzerland: Springer International Publishing. ISBN: 978-3-030-12555-4
- Frydenlund, Erika**, Etta C. Jones*, and Jose J. Padilla. (2019) "Mobility in crisis: An agent-based model of refugees' flight to safety." In Saikou Y. Diallo, Wesley J. Wildman, F. LeRon Shults, and Andreas Tolk (eds.) *Human Simulation: Perspectives, Insights, and Applications*. Springer, Cham. ISBN: 978-3-030-17092-9
- Erika Frydenlund** and David C. Earnest. (2018) "Emergence in Information Economies: An agent-based modeling perspective." In Saurab Mittal et al., (eds.) *Emergent Behavior in Complex Systems Engineering: A modeling and simulation approach*. Wiley. ISBN: 978-1-119-37886-0
- Earnest, David C. and **Erika Frydenlund**. (2017) "Flipping Coins and Coding Turtles." In Saurab Mittal et al., (eds.) *Guide to Simulation-based Disciplines: Simulation foundations, methods and applications*. Springer International Publishing. DOI 10.1007/978-3-319-61264-5_11

Frydenlund, Erika and David C. Earnest. (2015) "Harnessing the Knowledge of the Masses: Citizen Sensor Networks, Violence and Public Safety in Mugunga." In Emilian Kavalski, ed. *World Politics at the Edge of Chaos: Reflections on Complexity and Global Life*. State University of New York Press. ISBN-13: 978-1-4384-5607-2

Dickerson, Betty and **Erika Frydenlund**. (2013) "Examining Marriage Immigration to the United States." In Kazuo Nakajima, Jhonsu Yoon, and Rie Kondo (eds.) *International Comparative Studies on Women Marriage Immigrants and Their Families (グローバル時代における結婚移住女性とその家族の国際比較研究)*. Gakujutsu Publishers. ISBN-10: 4284103849

MEDIA & OTHER OUTREACH

Storymodelers.org [VMASC Lab Website] with live fieldnoting and project updates on Twitter, Instagram, and Facebook (@storymodelers)

McConnell, Sarah (host). (2023, November 24). Erika Frydenlund interview in episode: "Seeking Refuge: Caring for Newcomers" segment. In *With Good Reason* [radio show/podcast]. Virginia Humanities. <https://www.withgoodreasonradio.org/episode/seeking-refuge/>

Cleveland, Lydia*, Alexandra P Leader, and **Erika Frydenlund** (June 8, 2023). "Title 42 didn't result in a surge of migration, after all – but border communities are still facing record-breaking migration." *The Conversation US*. Retrieved from: <https://theconversation.com/title-42-didnt-result-in-a-surge-of-migration-after-all-but-border-communities-are-still-facing-record-breaking-migration-205907>

Padilla, Jose J. and Erika Frydenlund (March 2022). "The Ukrainian refugee crisis could last years – but host communities might not be prepared." *The Conversation US*. Retrieved from: <https://theconversation.com/the-ukrainian-refugee-crisis-could-last-years-but-host-communities-might-not-be-prepared-178482>

Frydenlund, Erika (May 24, 2021). "Donors are cutting food aid for refugees in Rwanda. That's devastating for people unable to work." *The Monkey Cage blog on The Washington Post*. Retrieved from: <https://www.washingtonpost.com/politics/2021/05/24/donors-are-cutting-food-aid-refugees-rwanda-thats-devastating-people-unable-work/>

Frydenlund, Erika, Jose J. Padilla, & Katherine Palacio (April 2021). "Colombia gives nearly 1 million Venezuelan migrants legal status and right to work." *The Conversation US*. Retrieved from: <https://theconversation.com/colombia-gives-nearly-1-million-venezuelan-migrants-legal-status-and-right-to-work-155448>

Padilla, Jose, Erika Frydenlund, Katherine Palacio (March 2021). "Colombia is letting hundreds of thousands of Venezuelans stay. What can other countries learn?" *The Monkey Cage blog on The Washington Post*. Retrieved from: <https://www.washingtonpost.com/politics/2021/03/11/columbia-is-letting-hundreds-thousands-venezuelans-stay-what-can-other-countries-learn/>

Lewis, Cathy (Host). (2019, October 30). Erika Frydenlund and Lee Slater interviewed in episode: "Syrian Refugees / End of Life Ethics / Del. Michael Mullin." In *Hearsay with Kathy Lewis*. WHRO Public Media. <https://mediaplayer.whro.org/program/hearsay/e/hearsay-wednesday-october-30th-2019>

Huddle, Sarah. (October 2019). "ODU Researchers to Study Host Regions' Ability to Manage an Influx of Displaced Populations." *News @ ODU*. Retrieved from: https://www.odu.edu/news/2019/10/minerva_grant#.XhS4HPVKhaQ

Frydenlund, Erika and Luz Diaz*. (2018, June 8). "This is Moria..." [Guest blog post]. *The Migrationist*. Retrieved from: <https://themigrationist.net/2018/06/08/this-is-moria/>

Frydenlund, Erika (2017, July 4). "Why does the media keep showing those same pictures?" A Greek host community's ongoing struggle [Guest blog post]. *The Migrationist*. Retrieved from: <https://themigrationist.net/2017/07/04/why-does-the-media-keep-showing-those-same-pictures-a-greek-host-communitys-ongoing-struggle/>

O'Hallarn, Brendan. (June 2017). "VMASC Researchers develop groundbreaking simulation showing how migration process batters refugees." *News @ ODU*. Retrieved from: https://www.odu.edu/news/2017/6/refugee_model

Decoding Lesvos [Documentary]. <https://www.decodinglesvos.org/>

Technical Reports

Padilla, Jose J. and **Erika Frydenlund**. (2023) "The Future of Modeling and Simulation." NATO OPEN Publications 8(5). ISSN 2957-7160 (Online), 2957-7799 (Print). https://issuu.com/spp_plp/docs/the_future_of_modeling_and_simulation?fr=xPf96ChQ

Jayanetti, Himarsha R.*, **Erika Frydenlund**, and Michele C. Weigle. (2023). "Exploring Xenophobic Events through GDELT Data Analysis." arXiv preprint. <https://arxiv.org/abs/2305.01708>

Non-Peer-Reviewed Articles

Frydenlund, Erika, Hanne Haaland, Jose J. Padilla, & Hege Wallevik (alphabetical). (2024). Editorial: Citizen Initiatives for Global Solidarity (CIGS) in disaster and humanitarian response [Editorial]. *Frontiers in Human Dynamics*, 6. <https://doi.org/10.3389/fhumd.2024.1508123>

Frydenlund, Erika, Fred Bidandi, and Jennifer N. Fish (2016). "Resource Access Challenges for Refugees and Migrants." *BUWA! Journal on African Women's Experiences*. Issue 6. <http://www.osisa.org/buwa/womens-rights/regional/buwa-issue-6-moving-stories>

Collins, Andrew and **Erika Frydenlund**. (2014). "Academic revenue management and quantitative worship." *Journal of Revenue and Pricing Management* 1(7).

Book Reviews

(2016). Review of *Social Phenomena: From Data Analysis to Models*, eds. Bruno Gonçalves and Nicola Perra. *JASSS*. <http://jasss.soc.surrey.ac.uk/19/2/reviews/2.html>

Non-Peer-Reviewed Conference Presentations

Ruderman, Michael, Michaela Hynie, & **Erika Frydenlund**. (2026). "Suture Practices in Collaborative Inter- and Trans-Disciplinary Research." Canadian Psychological Association CPA Convention 2026. Montreal, Canada.

Mozingo-McLeod, Meaghan*, Ginger Watson-Papelis, & **Erika Frydenlund**, "Assessing the Effectiveness of an Introduction to AI in a Hybrid Graduate Research Course," AECT International Convention 2025. Las Vegas, Nevada: October 2025.

Botello, Jhon*, Katherine Palacio, **Erika Frydenlund**, Jose J. Padilla, Humberto Llinás. (2024). "Assessing community support to migration: Insights from Barranquilla, Colombia." ISA 2024 Annual Convention. San Francisco, CA: April 2023.

Frydenlund, Erika, Jose J. Padilla, Madison Gonzalez*, and Veysel Yesilbas (2022). "Which Countries Drive the News About Refugees?" Prepared for the first Georgetown University Big Data Conference on Forced Migration. Washington, D.C.: May 2022.

Gonzalez, Madison*, Lydia Sa*, **Erika Frydenlund**, Jose J. Padilla. (2021). "A Newspaper Analysis to Understand Refugee Host Fatigue." Prepared for the Canadian Association of Refugee and Forced Migration Studies (CARFMS) 2021 Annual Conference. Canada/Online: October 2021.

Jose Martinez*, Katherine Palacio, Jose J. Padilla, **Erika Frydenlund**, (2021). "What are the locals saying related to the migration in Colombia." Prepared for the Canadian Association of Refugee and Forced Migration Studies (CARFMS) 2021 Annual Conference. Canada/Online: October 2021.

Lydia Sa*, Lia Castillo*, Katherine Palacio, Jose J. Padilla, **Erika Frydenlund**. (2021). "Striving for Health as a Human Right in Colombia: An Analysis of Absorptive Capacity." Prepared for the

Canadian Association of Refugee and Forced Migration Studies (CARFMS) 2021 Annual Conference. Canada/Online: October 2021. <https://arccg.is/SvjX1>

Clark, Mackenzie*, **Erika Frydenlund**, Jose J. Padilla. (2020, September 28-30). *The Social Networks of Humanitarian Aid: Power Laws, Political Interests, and Political Economy*. Content Meets Structure: Integrating Different Perspectives on Social Networks, Heidelberg, Germany

Clark, Mackenzie*, **Erika Frydenlund**, Jose J. Padilla. (2021, January 6-9). *Diversification of Humanitarian Aid: Emphasizing donor diversity to increase network resilience*. Southern Political Science Association: 2021 Annual Meeting, Online.

"What would a computational model of refugee integration look like?" Prepared for the Canadian Association of Refugee and Forced Migration Studies (CARFMS) 2019 Annual Conference. Toronto, Canada: May 2019.

Frydenlund, Erika, Hanne Haaland, Jose Padilla, and Hege Wallevik. "Ethnographers and modelers as co-creators of knowledge: Developing an ethnographic model of the refugee situations in Lesvos." Prepared for the ARNOVA 2018 Panel: Citizen Initiatives for Global Solidarity. Austin, Texas: November 2018.

Frydenlund, Erika and Jose J. Padilla. "Health Dynamics in Protracted Refugee Situations." Prepared for the International Association of the Study of Forced Migration. Thessaloniki, Greece: July 2018.

Roundtable discussion. "Methodological Challenges in Forced Migration Research." Canadian Association for Refugees and Forced Migration Studies (CARFMS) Annual Conference. Ottawa, Canada: May 22-25, 2018.

Roundtable discussion. "Methodological Challenges in Forced Migration Research." International Association for the Study of Forced Migration (IASFM) Bi-Annual Conference. Thessaloniki, Greece: July 22-25, 2018.

"We are suffering too: Hospitality fatigue toward refugees in Lesvos, Greece." Prepared for the International Studies Association Annual Conference. San Francisco, CA: April 2018.

"Causal Factors of Protracted Refugee Situations using a Modeling and Simulation Approach." Prepared for the International Studies Association Annual Conference. Baltimore, MD: February 2017.

"Should they Stay or Should they Go: Are there Benefits from Refugee Hosting?" Prepared for the International Studies Association Annual Conference. Baltimore, MD: February 2017.

"Ethics of Refugee Research." Prepared for Works in Progress: A Regional Interdisciplinary Conference of Feminist Scholarship. Virginia Beach, VA: April 2016.

Parsons, Carrie* and **Erika Frydenlund**. "Transportation Equity in Hampton Roads." Prepared for Works in Progress: A Regional Interdisciplinary Conference of Feminist Scholarship. Virginia Beach, VA: April 2016.

Parsons, Carrie*, **Erika Frydenlund**, and Joshua Behr. "Engineering Equity: Intersections of Transportation Inequality & Emergency Care Access." Prepared for the Midwest Sociological Society Annual Conference. Chicago, IL: March 2016.

"At the Periphery of 'Savage Sorting': Protracted Displacement in the African Great Lakes." Prepared for the International Studies Association Annual Conference. Atlanta, GA: March 2016.

Frydenlund, Erika and Andrew J. Collins. "Pedestrian Parsing Factors Created by Time and Distance in Refugee Flows." Prepared for SwarmFest 2015. Columbia, SC: July 2015.

Collins, Andrew J. and **Erika Frydenlund**. "Strategic Coalition Formation in Agent-based Modeling and Simulation." Prepared for SwarmFest 2015. Columbia, SC: July 2015.

"Capacity Development and Women's Health: Using Mobile Phones to Improve Maternal Health Outcomes in Rwanda." Prepared for Works in Progress: A Regional Interdisciplinary Conference of Feminist Scholarship. Norfolk, VA: April 2014.

"Imagining Home: Placeless Refugees as Border Politics in the Great Lakes Region." Prepared for the International Studies Association Annual Conference. Toronto, Canada: April 2014.

Frydenlund, Erika and Jennifer N. Fish. "Situating Refugee and Migrant Infants and Children in South Africa's Construction of Citizenship." Prepared for the International Studies Association Annual Conference. Toronto, Canada: April 2014.

"Action Research with South African Grandmother Activists in the Aftermath of Apartheid and in the Face of the HIV/AIDS Pandemic." Prepared for the International Association for Research on Service-Learning and Community Engagement. Baltimore, MD: September 2012.

"Women's Fertility Choices and Agency: Examining Japan's Population Decline through Agent-Based Modeling." Prepared for the Fourth World Congress on Social Simulation (WCSS), National Chengchi University. Taipei, Taiwan: September 2012.

Frydenlund, Erika and Savannah Russo. "Simulating for Social Change: An ABM of Grassroots Organizing to Combat HIV/AIDS in South Africa." Prepared for the Modeling, Simulation, and Visualization Student Capstone Conference 2012, Virginia Modeling, Simulation and Analysis Center. Suffolk, VA: April 2012.

"Mobilizing to Reduce Maternal Mortality in Rwanda." Prepared for the Scientific Studies of International Processes (SSIP) Poster Session at the International Studies Association Annual Conference 2012. San Diego, CA: April 2012.

"Modeling HIV/AIDS Activism as Tool for Community Prevention." Prepared for the Eastern Sociological Society 2012 Annual Meeting: Storied Lives: Culture, Structure, and Narrative. New York, NY: February 2012.

"Conducting Field Research to Inspire Social Science Modeling." Invited presentation for the Virginia Council of Graduate Schools' (VCGS) Seventh Annual Graduate Student Research Forum. Charlottesville, VA: February 2012.

Frydenlund, Erika and David C. Earnest. "mSafety: an ABM of Community Information-Sharing to Improve Public Safety." Prepared for the Association for the Advancement of Artificial Intelligence (AAAI) Fall Symposium on Complex Adaptive Systems: Energy, Information, and Intelligence. Arlington, VA: November 2011.

"Dynamic Attitudes about Motherhood: Modeling Family Planning Policies in Japan." Prepared for the Computational Social Sciences Society of America (CSSSA) 2011 Conference. Santa Fe, NM: December 2011.

"Glocalizing Activism: Engendering Refugee Studies through Service-Learning." Prepared for the IDEA Gender Justice and Development: Local and Global Conference, Bryn Mawr College. Bryn Mawr, PA: June 2011.

"Mobilizing Maternal Health: Modeling Rwanda's Plan to Reduce Maternal Mortality Rates." Prepared for the 2011 Student Capstone Conference, Virginia Modeling, Simulation, and Analysis Center. Suffolk, VA: April 2011.

"Modeling Health in Rwanda." Prepared for Focus on Rwanda: A Conference on Gender Research and Activism, Kigali Institute of Education. Kigali, Rwanda: March 2011.

"Tensions into Opportunities: Engendering Refugee Studies through Service-Learning." Prepared for a moderated research panel with Susan F. Martin, Institute for the Study of International Migration, Georgetown University, for the 9th Annual Graduate Research Conference. Old Dominion University, Norfolk, VA: February 2011.

"Oil, Gender & South America: Connecting the Oil Resource Curse to Gender Inequality." Prepared for the International Studies Association South Conference, Eckerd College. St. Petersburg, FL: October 2010.

“The Future of Japan’s Population: An Agent Based Modeling Approach.” Prepared for the 2010 Student Capstone Conference, Virginia Modeling, Simulation and Analysis Center. Suffolk, VA: February 2010.

POLICY EXPERIENCE

NATO Partnership for Peace Consortium (PfPC)

Co-Chair, Quality Assurance Working Group

2025–present

Co-lead NATO-affiliated assessments of defense education quality and impact through the PfPC’s Defense Education Enhancement Program (DEEP).

US Army Human Terrain Systems, Reachback Research Center

IDS International, Newport News, VA

Senior Socio-Cultural Analyst

2012-2013

Used open-source, unclassified, and classified material to produce timely, relevant cultural knowledge products to support deployed operational teams. Developed in-depth ethnographic material and socio-cultural analysis to provide a knowledge base for selected areas of interest.

US Joint Staff Deputy Directorate J7 for Joint & Coalition Warfighting, Executive Action Group, Northrop Grumman Technical Services, Suffolk, VA

Research and Policy Analyst

2011-2012

Provided original research, analysis, and publications to engage the military and government community; researched, produced, and distributed diverse products for project planning, agendas, speeches/talking points, information papers, fact sheets, brochures, special publications, briefs, and formal staffing packages.

Northrop Grumman Technical Services, Hampton Roads, Virginia

Lead Strategic Engagement Specialist

2008-2011

Supervised outreach strategies for military and government civilians to promote JKNIFE resources that provide U.S. and Coalition troops in the field and in training with information and intelligence to detect and prevent roadside bomb attacks on soldiers in Afghanistan and Iraq; hosted distinguished military and government visitors; represented JKNIFE at military conferences and meetings.

SERVICE TO THE UNIVERSITY

- Ad Hoc Faculty Senate Committee, ODU, 2024-present
- Treasurer, University Women’s Caucus, 2023-2027
- Policy Advisement Committee Member, Office of Enterprise Research Innovation
 - Mentorship Program Development, 2023-2024
 - Policy for OERI Principal Investigatory Eligibility, 2023
 - Policy for OERI Research Faculty Evaluation, 2023-2024
- Hiring Committee Member, Office of Enterprise Research and Innovation
 - OERI Center Director: 2025; 2026
 - Administrative Professional, 2024-2025
 - Research Faculty Member, 2024
 - IT Staff, 2023

EDITORIAL & SERVICE TO THE DISCIPLINE

Associate Editor (2021 – present). *SIMULATION: Transactions of the Society for Modeling and Simulation*.

Invited Speaker. “Bridging Worlds: Integrating Qualitative & Ethnographic Data in Agent-based Modeling.” June 2025. York University Research Team Meeting.

Review Panel Member (External Competitive Funding)

- NSF CMMI Division, 2024
- Wellcome Trust, 2024
- NSF CMMI Division, Ad Hoc Reviewer, 2023
- NSF CMMI Division, Ad Hoc Reviewer, 2021

External Hiring Committee Member, University of Agder, 2023.

Invited Speaker. "Climate Migration." Foreign Policy Association Great Decisions Program.

- Hampton Roads, Virginia February 2023
- Deltaville, Virginia, February 2023

Invited Speaker. "Forced Migration: Refugee Host Communities." DOD Strategic Leaders International Course. Naval Small Craft Instruction and Technical Training School (NAVSCIATTS) at Stennis Space Center, MS. <https://www.socom.mil/navsoc/NAVSCIATTS/Pages/Strategic-Courses.aspx>

- June 2022, International Military Cohort from South America
- March 2022 (virtual), International Military Cohort from Europe
- August 2022, International Military Cohort from Asia
- March 2023, International Military Cohort (mixed)
- June 2023, International Military Cohort from South America
- August 2023, International Military Cohort from Asia
- March 2024, International Military Cohort (mixed)
- June 2024, International Military Cohort from South America
- August 2024, International Military Cohort (mixed)
- March 2025, International Military Cohort (mixed)

Invited Participant. "Big Data and Forced Migration Conference." Georgetown University. April 25, 2022.

Invited Speaker. "Changing Demographics: Migration." Foreign Policy Association Great Decisions Program.

- Deltaville, Virginia. March 4, 2022.

Invited Speaker. "Modeling & Simulation for Forced Migration Research." National Academies of Science Committee on Population's *Workshop on Forced Migration Research: From Theory to Practice in Promoting Migrant Well-Being*. Washington, D.C. May 21-22, 2019. Proceedings available at: <https://www.nap.edu/read/25584/chapter/1>

Conference Organizing Committee, Annual Simulation Symposium (ANSS)

- Co-Chair 2020-2022, with Jose Luis Risco Martin (Chair).
- Program Chair, 2019
- General Chair, 2018
- Program Chair, 2017

Invited Speaker. "Migration & Mobility." Foreign Policy Association Great Decisions Program.

- Kilmarnock, Virginia. March 22, 2019.
- Norfolk, Virginia. February 23, 2019.

- Deltaville, Virginia. February 15, 2019.

Head of Projects. Emerging Scholars and Practitioners on Migration Issues (ESPMI) Network. August 2016 – August 2018.

Invited Speaker. Lesvos Dialogues. Lesvos, Greece. May/November 2017.

Conference Co-Chair, with Andrew J. Collins. SwarmFest 2017. Suffolk, Virginia.

Assistant Instructor. Introductory Robotics Camp. ODU VMASC, July 2017.

Invited Speaker. "Migration." Foreign Policy Association Great Decisions Program.

- Deltaville, Virginia. March 11, 2016.
- Virginia Beach, Virginia. February 6, 2016.

Invited Speaker. "From camps to durable solutions: Refugee resettlement in developed countries." ODU Model United Nations Faculty Forum. Norfolk, Virginia. February 13, 2016.

Guest Presentation. "Refugees, Forced Migration, and Resettlement in Hampton Roads." Thalia Lions Club. Virginia Beach, Virginia. December 3, 2014.

Reviewer

International Migration (2); Cities (2); Sustainability (2); Refugee Review (2); SIMULATION (5); Society of Modeling and Simulation International: SpringSim (15); KNOWMAD (1); Transportation Research Board Annual Conference (2); AWM-EDGE (1); Journal of Artificial Societies and Social Simulation (2)

MEMBERSHIPS

International Studies Association; International Association for the Study of Forced Migration (IASFM); Society for Modeling and Simulation International; TCSIM/ IEEE Computer Society; Symphonicity Symphony Orchestra of Virginia Beach