

ERIKA FRYDENLUND

Virginia Modeling, Analysis and Simulation Center
1030 University Blvd. Suffolk, Virginia 23435 USA
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EDUCATION

Old Dominion University, Norfolk, Virginia 2015
Ph.D., International Studies
Fields: International Political Economy and Development; Modeling and Simulation
Title: *'Home was Congo': Refugees and Durable Displacement in the Borderlands of 1,000 Hills*
Committee: Jennifer N. Fish (chair), David C. Earnest, Dorian B. Crosby

Old Dominion University, Norfolk, Virginia 2012
Graduate Certificate, Women's Studies

Old Dominion University, Norfolk, Virginia 2010
Graduate Certificate, Modeling and Simulation

Virginia Polytechnic Institute and State University, Blacksburg, Virginia 2006
M.S., Applied Statistics

University of South Carolina, Columbia, South Carolina 2002
B.S., Applied Mathematics; Cognate in Computer Science

ACADEMIC APPOINTMENTS

Research Assistant Professor, Virginia Modeling, Analysis and Simulation Center (VMSAC) 2016-present
Old Dominion University, Norfolk, VA

Senior Project Scientist, Virginia Modeling, Analysis and Simulation Center (VMSAC) 2013-2016
Old Dominion University, Norfolk, VA

Affiliate Faculty, Graduate Program in International Studies 2017-present
Old Dominion University, Norfolk, Virginia

Adjunct Lecturer, Women's Studies Department 2015-2018
Old Dominion University, Norfolk, Virginia

Adjunct Instructor, Statistics 2008
DeVry Institute, Chesapeake, Virginia

Adjunct Instructor, Mathematics 2007
Tidewater Community College, Chesapeake, Virginia

Graduate Assistant, Statistics Department 2005-2006
Virginia Tech, Blacksburg, Virginia

Assistant English Teacher 2002-2005
JET Programme, Goryogadai High School, Kanagawa, Japan

AWARDS AND DISTINCTIONS

1st Place – Safety & Security, D4R Data for Refugees Challenge 2019
Team lead, with M.Y. Sener, R. Gore, C. Boshuijzen-va Burken, E. Bozdog, & C. de Kock

John R. Broderick Diversity Champion Award 2018
The Office of Institutional Equity & Diversity, Old Dominion University

ODU Faculty Exchange August 2018
Selected Participant, University of Kitakyushu, Japan

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
Anita Clair Fellman Endowed Service Learning Scholarship <i>Friends of Women's Studies</i> , Old Dominion University	2012-2013
1 st Place Paper Award for Excellence in M&S Research <i>2012 Student Capstone Conference, Medical Modeling Track</i> Virginia Modeling, Analysis, and Simulation Center (VMASC)	2012
Nancy Topping Bazin Graduate Scholarship <i>Friends of Women's Studies</i> , Old Dominion University	2011-2012
Modeling and Simulation Graduate Assistantship <i>College of Arts and Letters</i> , Old Dominion University	2011-2012
Old Dominion University College of Arts and Letters Dean's Education Abroad Award	2011

PEER-REVIEWED JOURNAL ARTICLES

- 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 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 (SJR Q2 - Civil and Structural Engineering)
- 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

- 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.
- Frydenlund, Erika**, Hege Wallevik, Jose J. Padilla, and Hanne Haaland (2020 forthcoming). "The Rise and Fall of Humanitarian Citizen Initiatives: A simulation-based approach." Social, Cultural, and Behavioral Modeling Conference. SBP-BRiMS 2020. Washington, D.C. October 2020.

- 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.

BOOK CHAPTERS

Frydenlund, Erika and Jose J. Padilla. "Opportunities and Challenges of using Computer-Based Simulation in Migration and Displacement Research: A Focus on Lesbos, Greece." In K. Grabska, C. Clark-Kazak, and C. Horst (Eds.), *Research Methods in Refugees, Forced Migration, and Displacement (working title)*. University of Toronto Press (2020 forthcoming).

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.

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*.

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

NON-PEER-REVIEWED JOURNAL ARTICLES

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 PAPERS

"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 Lesbos." 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.
- "We are suffering too: Hospitality fatigue toward refugees in Lesbos, 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.

MEDIA & OTHER WORK

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

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/>

(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/>

CIVIC ENGAGEMENT AND POLICY EXPERIENCE

Field Research in Cape Town, South Africa	3/2020
Field Research in Lesbos, Greece	5/2018; 11/2017; 5/2017
Field Research in Cucuta, Colombia	7/2018
Field Research in Lima, Peru	7/2018

Refugee and Immigrant Services, Hampton, VA 2010-2015

Community Advisory Committee Member

Resettle refugees and immigrants into the Hampton Roads area by acting as liaison between ODU and the resettlement agency; participate in and plan fundraising events; serve on the organization's Community Board

Field Researcher, Kigali, Rwanda 3/2011; 1/2013; 6/2014

- Conducted capacity-building training at the Rwanda Ministry of Health; Initiated a Memorandum of Understanding between Old Dominion University and the Rwanda Ministry of Health for in-depth analysis of Rwanda's "mHealth" pilot program (2013, 2014)
- Co-organized the first gender studies conference at the Kigali Institute of Education (2011)
- Conducted focus groups and interviews with Rwanda's displaced, reintegrated, and refugee populations in refugee camps and resettlement projects (2011, 2013, 2014)

Field Researcher, Petit Trou des Nippes, Haiti 1/2014

Co-facilitated a focus group interview with a community-based women's organization to combat domestic violence; documented the work of a US-based nonprofit organization's work in Haiti

US Army Human Terrain Systems, Reachback Research Center 2012-2013

IDS International—Newport News, VA

Senior Socio-Cultural Analyst

Utilized open source, unclassified and classified material to produce timely, accurate, operationally 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 2011-2012

Research and Policy Analyst

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, PowerPoint briefs, and formal staffing packages

ODU Study Abroad, Dakar, Senegal 5/2012

Participated in academic and activism-related discussions with various nongovernmental organizations near Dakar to include: Tostan, SOS Villages, and Ndem Maam Samba. Participated in discussions with various political and cultural leaders including author, Aminata Sow Fall and former Senegal magistrate, Marie-Jose Touree.

Graduate Field Researcher, Cape Town, South Africa 7/2011

Designed and conducted original research for the Agency for Refugee Education, Skills Training & Advocacy (ARESTA) on refugees' understanding of citizenship laws by administering surveys at refugee reception centers throughout Cape Town; conducted interviews to refer refugees affected by xenophobia to the United Nations High Commission for Refugees (UNHCR) for resettlement outside of South Africa.

Northrop Grumman Technical Services, Hampton Roads, Virginia 2008-2011

Lead Strategic Engagement Specialist
Supervised outreach strategies targeting 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

RESEARCH GRANTS

Co-Principal Investigator, OSD Minerva Research Initiative, "Computational Framework for Assessing Absorptive Capacity," July 2019 – June 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, 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)

OTHER SERVICE ACTIVITIES

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>

Chair. SpringSim 2020 Organizing Committee, Annual Simulation Symposium (ANSS) with Jose Luis Risco Martin.

Program Chair. SpringSim 2019 Organizing Committee, Annual Simulation Symposium (ANSS).

Lecture. "Migration & Mobility." Foreign Policy Association Great Decisions Program. Kilmarnock, Virginia. March 22, 2019.

Lecture. "Migration & Mobility." Foreign Policy Association Great Decisions Program of Hampton Roads. Norfolk, Virginia. February 23, 2019.

Lecture. "Migration & Mobility." Foreign Policy Association Great Decisions Program. Deltaville, Virginia. February 15, 2019.

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

General Chair. SpringSim 2018 Organizing Committee, Annual Simulation Symposium (ANSS) Track.

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.

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

Conference Co-Chair, with Andrew J. Collins. Swarmfest 2017.

Program Chair. SpringSim 2017 Organizing Committee, Annual Simulation Symposium (ANSS) Track.

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

Lecture. "Migration." Foreign Policy Association Great Decisions Program. Deltaville, Virginia. March 11, 2016.

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

Lecture. "Migration." Foreign Policy Association Great Decisions Program of Hampton Roads. Virginia Beach, Virginia. February 6, 2016.

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

TEACHING EXPERIENCE

Introduction to Research Methods in International Studies (Graduate)	2017-2020
Advanced Statistical Techniques for International Studies (Graduate)	2018
Refugee Studies (Graduate)	2016
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

Travis Holmes, Ph.D. International Studies, Old Dominion University (Chair)	2022
Etta C. Jones, M.A. Humanities, Old Dominion University (Chair)	2021
Shelby Mertens, M.A. International Studies, Old Dominion University (Chair)	2021
Elena Freeman, B.S. Political Science, University of South Dakota	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

REVIEWER

Refugee Review (2); SIMULATION (5); Society of Modeling And Simulation International: SpringSim (10); Transportation Research Board Annual Conference (2); AWM-EDGE (1); Journal Of Artificial Societies And Social Simulation (1)

LANGUAGES

Japanese – conversational/ Japanese Language Proficiency Test- Nihongo Nouryoku Shiken Level 2 Certification (Spring 2005).

French – basic

MEMBERSHIPS

The Computational Social Science Society of the Americas (CSSSA)
 International Studies Association
 Society for Modeling and Simulation International
 TCSIM/ IEEE Computer Society
 Tidewater Beekeepers Association