

ERIKA FRYDENLUND

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EDUCATION

Old Dominion University, Norfolk, Virginia Ph.D., International Studies Title: <i>'Home was Congo': Refugees and Durable Displacement in the Borderlands of 1,000 Hills</i>	2015
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

ACADEMIC APPOINTMENTS

Research Assistant Professor, Virginia Modeling, Analysis and Simulation Center Old Dominion University, Norfolk, VA	2016-present
Senior Project Scientist, Virginia Modeling, Analysis and Simulation Center (VMASC) Old Dominion University, Norfolk, VA	2013-2016
Affiliated Faculty, Graduate Program in International Studies Old Dominion University, Norfolk, Virginia	2017-present
Adjunct Lecturer, Women's Studies Department Old Dominion University, Norfolk, Virginia	2015-present
Adjunct Instructor, Statistics DeVry Institute, Chesapeake, Virginia	2008
Adjunct Instructor, Mathematics Tidewater Community College, Chesapeake, Virginia	2007
Graduate Assistant, Statistics Department Virginia Tech, Blacksburg, Virginia	2005-2006
Assistant English Teacher JET Programme, Goryogadai High School, Kanagawa, Japan	2002-2005

RESEARCH GRANTS

Principal Investigator, OSD Minerva Research Initiative, “What’s Missing? Innovating Interdisciplinary Methods for Hard-to-Reach Environments,” July 2022 – July 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: Katharine Palacio (UniNorte), Michaela Hynie (York University), Hanne Haaland (UiA), Hege Wallevik (UiA)). Independent Researchers: Zacheus Abang (South Africa); Cyrillus Swinne (Colombia).

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. \$324,000. (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 Papelis, 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)

EXPERTISE SUPPORT FOR CENTER RESEARCH GRANTS

These projects were led by VMASC colleagues and outside of my research focus where I provided expertise on computational modeling and analysis and/or social science expertise.

Co-PI, Virginia Department of Emergency Management. “Commonwealth Of Virginia 2023 Hazard Mitigation Plan Update.” PI: Barry Ezell. January 2022 – March 2023. \$225,000. LOE: 17%

- Co-PI, Virginia Department of Emergency Management. "Risk And Decision Analytic Support to The Commonwealth of Virginia." PI: Barry Ezell. January – December 2022. \$280,000. LOE: 50%
- Co-PI, Commonwealth of Virginia. "Coastal Virginia Maritime Advancement Programs (COVA MAP)." PI: R. Michael Robinson. February 2020 – February 2023. \$1.53M. LOE: 15%
- Co-PI, Stephens Institute of Technology (ODU Subcontract). "Quantifying Mission Impact for Technology Alternatives." PI: Eric Weisel. April – December 2019. \$21,875. Level of effort (LOE): 33%
- Investigator, Virginia Department of Emergency Management and ODU Internal Funding. "Support for Covid-19 Vaccination Planning and Assessment." PI: Barry Ezell. April – July 2020. LOE: 30%.
- Co-PI, Virginia Department of Emergency Management. "Hampton Roads Maritime Area- Port of Virginia Risk Assessment II" PI: Barry Ezell. August 2017 – January 2018. \$35,000. LOE: 30%.
- Co-PI, University of Maryland Economic Competitiveness UTC. "Transportation Study." PI: Mecit Cetin. December 2015 – September 2018. \$40,000. LOE: 40%.
- Investigator, City of Virginia Beach. "Virginia Beach Southeastern Parkway Greenbelt (SEPG) project." \$826,506 (including \$86,744.00 matching). PI: R. Michael Robinson. April 2014 – December 2015. LOE: 60%
- Investigator, City of Portsmouth, VA. "Add-On Freight Train Module to the Base Microscopic Portsmouth Transportation Model." \$33,633. PI: R. Michael Robinson. April 2015-November 2015. LOE: 50%.

PUBLICATIONS

(* Identifies Students)

Peer-Reviewed Journal Articles

- Collins, A. J., Frydenlund, E., Lynch, C. J., & Robinson, R. M. (2022, In Press) 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) (Scopus CiteScore 1.5)
- 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 (metrics unknown, but PRIO, a refugee studies center, assessed articles to be cited much higher than average among the other refugee studies journals in their guide: <https://migration.prio.org/Journals/>)
- Frydenlund, Erika** and Christa de Kock (2020). "Agent-Based Modeling Within Forced Migration Research: A Review and Critique." *Refugee Review*. Vol. 4. (online, open-access, society-based journal – no scores available)
- 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. (Scopus CiteScore 3, Impact Factor 1.377, Google h5 Index: 20)
- 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. (Scopus CiteScore 2.4, Impact Factor 1.56, Google h5 Index: 44)
- 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). (Scopus CiteScore 2.4, Impact Factor 1.56, Google h5 Index: 44)

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. (Scopus CiteScore 2.4, Impact Factor 1.56, Google h5 Index: 44)

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. (Scopus CiteScore 0.9)

Peer-Reviewed Conference Papers

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.

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.

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.

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 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

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) – under review at *Third World Quarterly*. (Scopus CiteScore 3.5)

Frydenlund, Erika, Jose J. Padilla, Madison Gonzalez*, Veysel Yesilbas. “Which countries drive the news about refugees?” (June 6, 2022) – under review at *International Migration Review*. (Scopus CiteScore 3.2; Impact Factor 3.29; h5-index 30)

Frydenlund, Erika, Hanne Haaland, Jose J. Padilla, Hege Wallevik (alphabetical). "Citizen Initiatives in Humanitarian Aid: Lesbos, Greece as a case in bottom-up humanitarian assistance mobilization" (June 14, 2022). 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* – under review for Routledge Explorations in Development Studies series.

Book Chapters

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

Non-Peer-Reviewed 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 Presentations

- 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://arcg.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.

MEDIA & OTHER OUTREACH

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

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/>

CIVIC ENGAGEMENT AND POLICY EXPERIENCE

Refugee and Immigrant Services, Hampton, VA 2010-2015
Community Advisory Committee Member

Resettle refugees and immigrants in the Hampton Roads area by acting as liaison between Old Dominion University and the local 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

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, 2011-2012
Executive Action Group, Northrop Grumman Technical Services, Suffolk, VA

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, 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 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 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 DISCIPLINE

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

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

Invited Lecturer. “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

Invited Lecturer. “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 Lecturer. “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 Lecturer. “Migration.” Foreign Policy Association Great Decisions Program.

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

Invited Lecturer. “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 (1)

Memberships

International Studies Association
 International Association for the Study of Forced Migration (IASFM)
 Society for Modeling and Simulation International
 TCSIM/ IEEE Computer Society
 The Computational Social Science Society of the Americas (CSSSA)
 Virginia Beach Symphonicity Community Orchestra and Chorus

TEACHING EXPERIENCE

Eleven semesters of independent study supervision for graduate students in International Studies, Women's Studies, English, and Humanities. Co-supervised 13 graduate (master's and PhD) students in the research lab over the past four years; Supervised 7 undergraduates, 2 from outside ODU to contribute to lab research projects.

Refugee Studies: Women on the Move (Graduate: Women's Studies/International Studies)	2022 2021
Introduction to Agent-based Modeling (Graduate)	2021
Modeling & Simulation in the Life Sciences (Graduate, co-taught seminar)	2017-2021
Introduction to Research Methods in International Studies (Graduate)	
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

Mahfoudha Sid Elmine, Ph.D. International Studies, Old Dominion University (Interim Chair)	2023
Travis Holmes, Ph.D. International Studies, Old Dominion University (Chair)	2022
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

AWARDS AND DISTINCTIONS

Panel Fellow, Game Changers Academy for Advancing Research Innovation	2021
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CMMI Division of the National Science Foundation	
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
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

PROPOSALS APPLIED FOR NOT AWARDED

* Marks proposals with international partners and collaborations; ** Led by international partners

- ** Proposal: "Science for sharing: Using simulation to model and communicate climate impacts on human migration." PI: Hynie (York University, Canada). Submitted to Discovery Horizons NSERC on 6/14/2021
- Minerva Research Initiative White Papers (5):
 - * "Modeling the Impact Contested Governance and Climate Events have on Absorptive Capacity." PI: Padilla. Submitted to Minerva Research Initiative White Paper Call on 6/23/2022
 - ** "Pop-up-Aid: Modeling civic engagement for climate resilience." PI: Haaland (UiA, Norway). Submitted to Minerva Research Initiative White Paper Call on 6/23/2022
 - * "Interdependence, Collective Action, And Climate Change." PI: Frydenlund. Submitted to Minerva Research Initiative White Paper Call on 6/23/2022
 - "Cyberattacks and Erosion of Trust in Semi-Governed Spaces." PI: Padilla. Submitted to Minerva Research Initiative White Paper Call on 6/23/2022
- * Proposal: "Cyberattacks and Erosion of Trust in Semi-Governed Spaces." PI: Padilla. Submitted to Minerva Research Initiative Full Call on 9/29/2022
- * Proposal: "CAREER: Building a Collective Scientific Theory of Forced Migration and Displacement." PI: Frydenlund. Submitted to NSF on 7/26/2022

- Proposal (STTR): “MOdel and Data Explorer for Migration (MODEM).” PI: Frydenlund (for VMASC team). SBIR Submitted with Modus Operandi on 10/25/2021
- Proposal (student-led): “Capacity-Building to Resilience: The Role of Small Immigrant Businesses in Withstanding Crisis.” PI: Frydenlund. Submitted to Russell Sage Foundation on 5/20/2020
- * Proposal: “Humanitarian Chatbot to Support Venezuelan Migrants' Access to Local Services in the Atlántico State,” PI: Frydenlund, Submitted to LASER PULSE/USAID on 5/21/2020
- * Proposal: “CAREER: Simulating Qualitative Data to Advance Scientific Theory and Communication.” PI: Frydenlund. Submitted to NSF on 8/10/2020
- Proposal: “REU Site: Disinformation Detection and Defense.” PI: Wu (ODU Computer Science). Submitted on 8/26/2020
- ** Proposal: “POPOP-AID: Modeling civic engagement in international humanitarian aid.” PI: Haaland (University of Agder, Norway). Submitted to FRIPRO/NRC on 2/17/2021
- Proposal: “Did they really tweet that? Detecting misattribution disinformation in screenshots of social media posts.” PI: Nelson (VMASC). Submitted on 3/28/2021
- Proposal: “Computational Modeling for COVID-19 Vaccine Equity: A Novel Approach to Improve Vaccine Uptake.” PI: Frydenlund. Submitted to Jeffress Trust Foundation on 3/29/2021
- ** Proposal: “The Informal Economy, Gender and Zoonotic Disease in Africa: Analyzing the Relationship Between Food, Trans-Border Mobility, and Livelihood.” PI: Fallah (through York University, Canada) on 4/12/2021
- ** Proposal: “Modeling Civic Engagement in International Humanitarian Aid: MoCivE.” Norwegian Research Council FRIPRO. UIA PIs: Hanne Haaland & Hege Wallevik; VMASC PIs: Erika Frydenlund & Jose Padilla. Submitted 5/22/2020
- * Proposal (Invited): “Humanitarian Chatbot to Support Venezuelan Migrants' Access to Local Services in Atlántico State.” LASER PULSE/USAID. VMASC PIs: Erika Frydenlund & Jose Padilla; UniNorte PIs: Katherine Palacio & Carmen Berdugo. Requested: \$275,000. Submitted 5/21/2020.
- ** Proposal: “Ethnographic Simulation (EthnoSim): Simulation-aid policy testing for protracted refugee situations.” Norwegian Research Council NORGLOBAL. UIA PIs: Hanne Haaland & Hege Wallevik; VMASC PIs: Erika Frydenlund & Jose Padilla. Submitted 4/7/2019
- ** Proposal: “Citizen Initiatives for Global Solidarity: Modeling Civic Engagement in International Aid.” Norwegian Research Council FRIPRO. UIA PIs: Hanne Haaland & Hege Wallevik; VMASC PIs: Erika Frydenlund & Jose Padilla. Submitted 4/8/2019
- ** Proposal: “Increasing inequalities during times of shrinking civic space: Exploring the role of Citizen Initiatives for global solidarity (CIGS).” Norwegian Research Council FRIPRO. UIA PIs: Hanne Haaland & Hege Wallevik; VMASC PIs: Erika Frydenlund & Jose Padilla. Submitted 4/25/2018
- ** Proposal: “The role of Citizen Initiatives in achieving the Sustainable Development Goals (CI4SDG)” Norwegian Research Council NORGLOBAL. UIA PIs: Hanne Haaland & Hege Wallevik; VMASC PIs: Erika Frydenlund & Jose Padilla. Submitted 4/25/2019
- ** White Paper: SSHRC/Canada—Modeling Global Solutions: Constructing Collaboratories to Illuminate Dynamics of Displacement and Strengthen Humanitarian Action (Led by York University). Submitted 2/18/2019
- Proposal: “Quantifying and Modeling Unconventional Migration Dynamics.” DHS Borders, Trade and Immigration Institute RFP-17-02. PI: Erika Frydenlund, co-PI: Jose J. Padilla. Submitted 7/7/2017
- * Proposal: “Measuring and Modeling the Absorptive Capacity of Communities: Integrating Natural Systems, Infrastructure, and Human Population Dynamics.” ONR MURI Research Initiative. PI: Jose Padilla; Co-Pis: Erika Frydenlund, Saikou Diallo & Joshua Behr; Partner

Institutions: University of Agder (Norway) – Hanne Haaland & Hege Wallevik. Submitted 7/18/2017.

- Proposal (invited): “Computational Models for Identifying Refugee Settlement Initiatives towards Reducing Protracted Camps.” Minerva Research Initiative. PI: Erika Frydenlund. Co-PIs: Jose J. Padilla, David C. Earnest, and Saikou Diallo. Submitted 7/10/2017.
- Proposal. “Center For Advanced Analytics and Decision Support (CAADS).” Department of Homeland Security. PI: R. Michael Robinson. Submitted 5/1/2017.
- White Paper: “Computational Models for Identifying Refugee Settlement Initiatives towards Reducing Protracted Camps.” Minerva Research Initiative. PI: Erika Frydenlund. Co-PIs: Jose J. Padilla, David C. Earnest, and Saikou Diallo. Submitted 3/21/2017.
- Proposal. “Strategic Planning Support for A Hunger-Free Community.” Foodbank of Southeastern Virginia and Eastern Shore. PI: Joshua Behr. Submitted 2/1/2017.
- Proposal. “CRISP Type 1: Assessing Interdependent Critical Infrastructure and Community Resilience Through Social Media.” National Science Foundation. PI: R. Michael Robinson. Co-PIs: Erika Frydenlund, Andrew J. Collins, and Saikou Diallo. Submitted 7/1/2016.
- Proposal. “Smart Cities for Heart (Healthy, Equity and Resilience Transportation).” PI: R. Michael Robinson. Submitted 6/1/2016.
- Proposal. “Resilience Assessment for Critical Infrastructure Long-Range Investment Strategies.” IBM. PI: Erika Frydenlund. Co-PIs: Andrew J. Collins and R. Michael Robinson. Submitted 1/1/2016.
- Proposal. “Traffic Engineering Consultant.” Kimley-Horn & Associates, Inc. PI: Erika Frydenlund. Co-PIs: R. Michael Robinson, Craig Jordan, and Peter Foytik. Submitted 1/1/2016.
- Proposal. “National Transportation Center for Reducing Congestion.” University of Maryland UTC. PI: Mecit Cetin. Submitted 3/1/2016.
- Proposal. “Port of the Future.” University of Houston Center of Excellence. PI: Barry Ezell. Submitted 6/1/2016.
- Proposal. “Analyzing Illegal Flows of Drugs and Undocumented Migrants Through the Detection Incident Chain Assessment Framework (DEICAF).” University of Houston Center of Excellence. PI: Barry Ezell. Submitted 6/1/2016.
- Proposal. “Understanding The Motivations for Mass Migration: Modeling Breakdowns in Community Resiliency for Policy Interventions in Countries of Origin.” University of Houston Center of Excellence. PI: Barry Ezell. Submitted 6/1/2016.
- Proposal. “Advanced Modeling and Simulation For 21st Century Migration, Immigration and Refugee Challenges.” University of Houston Center of Excellence. PI: Barry Ezell. Submitted 6/1/2016.
- Proposal. “Securely And Efficiently Connecting Cargo to People.” University of Houston Center of Excellence. PI: Barry Ezell. Submitted 6/1/2016.