



# RESEARCH ROUNDUP

DOCTORAL PROGRAM IN CIVIL SECURITY LEADERSHIP, MANAGEMENT AND POLICY

The Professional Security Studies Department faculty and alumni are engaged in on-going scholarly and applied research. This update is published annually to inspire collaboration and curiosity among DSc faculty, students and alumni.

FOR MORE INFORMATION

2019  
FALL

VISIT: [NJCU.EDU/PSS/DSC](http://NJCU.EDU/PSS/DSC)

## A WORD FROM LIBRARIAN FRED SMITH

The Library continues to work diligently to serve doctoral students in their research endeavors. This year, we created a convenient link to the JSTOR Security Studies database. The portal encompasses 70+ relevant titles along with hundreds of monographs, reports, documents, and studies. To access the database, simply visit:

<https://www.njcu.edu/library/library-resources/databases/library-databases-subject/databases-subject-national-security>

Doctoral students and alumni are reminded that the Homeland Security Digital Library <https://www.hsdl.org/c> is available as well as the Directory of Open Access Journals <https://doaj.org> as quality (and free) sources.

In addition, the Library Blog is open to all students and alumni. Here is a link to "security" entries.

<https://www.jstor.org/security-studies/> Every link contained within the blog post is open source.

## DEPARTMENTAL NEWS

NJCU doctoral students are NOW earning their degree at one of the few schools in the country that is a Center of Academic Excellence (CAE) in both Cyber Defense and Intelligence. The CAE designation carries weight with employers because it speaks to the expertise and difficulty of the Department's degree programs.

For our doctoral students CAE membership provides access to publishing opportunities, research activities, and funding for travel to conferences. NJCU's CAE designations provide access to training events reserved for

students at affiliated schools. Stay tuned for details on next summer's 3-day intel community seminar at Rutgers. And, through CAE-linked events and training opportunities NJCU students get a chance to interact with their peers from throughout the country, while learning from leaders in the field.

Please add NSA-designated Cyber Defense Center of Academic Excellence and ODNI-designated Intelligence Center of Academic Excellence to your resume and Linked In profile when referring to NJCU.

## FACULTY RESEARCH

### Abdullah Al-hayajneh, M.S.C., Ph.D Candidate

#### Recent Publications

Bhattacharya, P., Thakur, K., Tseng, J., & Alhayajneh, A. (2019). Malicious Software Types and Counter Measures. *Journal of Advanced Research in Dynamical and Control Systems*, 11(1).

Alhayajneh, A., Baccarini, A., & Hayajneh, T. (2018). Quality of Service Analysis of VoIP Services. 2018 9th IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON), 812–818. doi: 10.1109/UEMCON.2018.8796841.

Alhayajneh, A., Baccarini, A., Weiss, G., Hayajneh, T., & Farajidavar, A. (2018). Biometric Authentication and Verification for Medical Cyber Physical Systems. *Electronics*, 7(12), 436. doi: 10.3390/electronics7120436.

#### In the Works

Using Macro Expansion Algorithm to Support Schema Tron New Features in Integrated Syntax and Semantic Validation for Services Computing.

Reducing Complexity of Maintaining Semantic Constraints with a Knowledge-Based Approach.

Extending OWL to Support Custom Relations in Knowledge-Driven Intelligent Systems.

Second-Level Defense for Protecting an Identity Management Framework.

Assigning Privilege in a Network Using IPCOP.

Authorization Checks in Static Code Analysis.

Development of Machine Learning based Ensemble Solution for Intrusion Detection.

#### Interest Areas

Cyber Security, Biometric Authentication, Wireless Body Area Networks (WBAN) Security.

### Juste Codjo, Ph.D.

#### Recent Publications

Codjo, J. (2018). Africa's Vicious Triad: Ethnic Exclusion, Coups, and Civil Wars. *International Studies Review*, 179-180 (Book Review).

#### In the Works

They Shall Not Be Free: Eisenhower's National Security Strategy and Decolonization of Africa, *Journal of Cold War Studies* (revisions underway).

Confronting Rebellion in Weak States: Government Response to Military Mutiny in Benin, *African Studies Review* (revisions underway).

Conditional Democratic Peace: Political Competition, Governance, and Civil War.

Consencracy: An Institutional Key to Lasting Peace in Africa (Book Project).

Foreign Patronage and Civil War, with Long, A.

Diversionsary Behavior & Expulsions of Foreigners in Africa, Kisangani E.

Assessing the French Influence in Africa in the Context of the Increasing US-Chinese Presence, conference paper to be presented at the 2020 ISA Annual Conference.

#### Recent Conferences

*Consencracy: A Consensus-Based Model of Democracy for Developing States*. Presented at the Midwest Political Science Association (MPSA) annual conference, April 2019.

*Conditional Democratic Peace: Political Competition, Governance, & Civil War*. Presented at the International Studies Association, Midwest (ISA-Midwest) annual conference, November 2018.

*Unpacking the "Black Bo": The Mediated Effects of Development and Democracy on Civil War*. Presented at the Midwest Political Science Association (MPSA) annual conference, April 2018.

*Confronting Rebellion: The Benin Government's Management of the 1992 Mutiny*. Presented at the Midwest Political Science Association (MPSA) annual conference, April 2018.

#### Interest Areas

International & National Security, Defense Strategy, Civil Conflicts and Armed Rebellions, Government Response to Political Violence, African Security, US-Africa Strategic Relations, France-Africa Strategic Relations, U.S. Security Cooperation, Civil Military Relations, Political Institutions & Domestic Peace in Poor Countries.



## FACULTY RESEARCH (CONT'D)

### Richard J. Cosgrove, Ed.D.

#### In the Works:

Developing the content for the Professional Security Studies Program Review, incorporating assessments for curriculum, faculty development, course proposals, scholarship and service, enrollment trends, student success, and alumni success.

#### Interest Areas

Domestic Terrorism, Leadership, Policy.

### Scott Fisher, Ph.D

#### Recent Publications

Fisher, S. (2018). Testing the Importance of Information Control to Pyongyang: How North Korea Reacts to the Diplomatic, Information, Military and Economic Tools of Statecraft. *International Journal of Korean Unification Studies*, 27(2), 67–111.

Fisher, S. (2019). Testing the Importance of Information Control: How Does Russia React When Pressured in the Information Environment? *Journal of Information Warfare*, 18(1), 23–38.

#### Recent Conferences

*Using Data Analytics to Understand and Address Modern Influence Operations*, presented at the 12th Annual Homeland Defense/Security Education Summit, 2019–Public Interest Security: Leveraging Education to Connect Policy and Operations with American Perspectives of Homeland Security, Monterey, CA, October 2019.

*NATO Information and Communicator's Conference 2019*, NATO conference on communications and information warfare, Warsaw, Poland, September 2019.

*Operations to Counter Russian Information Warfare*, panel moderator, Cyber Endeavour 2019, Stanford Research Institute, Menlo Park, CA, June 2019.

*Data Visualization in National Security*, conducted workshop for graduate and undergraduate students at the Rutgers IC [Intelligence Community] CAE [Center of Academic Excellence] Certificate in Intelligence and

National Security: Critical Technology Studies program, New Brunswick, NJ, June 2019.

*Design Thinking Challenge—Harnessing Our Collective Influence at the Civil Affairs Command (CACOM), Brigade and Group Echelons*, represented information operations at U.S. Civil Affairs and Psychological Operations Command (USACAPOC) workshop convened by Major General (MG) Darrell Guthrie to help determine USACAPOC's way forward in terms of influence operations, Ft. Bragg, NC, May 2019.

*Using Big Data to Measure the Reaction of Authoritarian States to Tools of Foreign Policy: Case Studies of North Korea and Russia*, presented at the 6th Annual New Jersey Big Data Alliance Symposium, April 2019.

#### Grants

Defense Intelligence Agency (DIA), DIA Intelligence Community Center of Academic Excellence (HHM402-19-FOA-399), subrecipient PI, September 2019–September 2024.

Defense Intelligence Agency (DIA), IC [Intelligence Community] CAE [Center of Academic Excellence] Critical Technology Studies Program at Rutgers, The State University of New Jersey (HHM402-18-1-0007), subrecipient PI, September 2018–September 2022.

#### Interest Areas

International & National Security, North Korea, East Asia, Foreign Policy, Information Operations/Warfare, Digital Humanities, Open Source Intelligence, Sentiment Analysis

### Graig R. Klein, Ph.D

#### Recent Publications

Farrer, B. & Klein, G. R. (forthcoming print; online first). How Radical Environmental Sabotage Impacts US Elections. *Terrorism and Political Violence*. doi: 10.1080/09546553.2019.1678468.

Klein, G. R. (2019, September 24). Accommodating the Hong Kong Protests, It's Not Too Surprising. *Political Violence @ a Glance*.

#### Under Review

*Government Repression of Protests & Domestic Terrorism Decision-Making*.

*Presidential Use of Force in the Drone Age*. With Bodderly, S.S.

*Does Decentralization Alleviate Malcontent? Territorial Distribution of Power & Protest Events*. With Madariaga, A. G.

*Understanding Political Protests in Nicaragua and Elsewhere*. With Cuesta, J. and Chagalj, C.

#### Recent Conferences

*Government Repression of Protests & Domestic Terrorism Decision-Making*. Presented at the American Political Science Association (APSA) annual conference, September 2019.

#### Upcoming Conferences

*Invitations & Accepted Presentations*  
*Repression Repertoires: The*

*Repression Events Data Project*. Presenting at the International Studies Association (ISA) annual conference, March 2020.

*Domestic Terrorism Risks Enhanced by Repression Protesters*. Presenting at the International Studies Association (ISA) annual conference. Invited to present at the International Conference on Terrorism and Political Violence, May 2020.

*Refugees, Terrorism and National Security: A Closer Look*. Invited to present at the Southern Political Science Association (SPSA) annual conference, January 2020.

#### In the Works:

*Escalating Political Unrest: From Protest Events to Civil War*. With Regan, P. M. and Chesler, A.

*Refugees, Terrorism and National Security: A Closer Look*.

*Rethinking Transnational Terrorism as a Strategy of Provocation*.

*Predicting Armed Conflict Using Machine Learning*. With Tatonetti, N.

#### Interest Areas:

International & National Security, Terrorism & Counterterrorism, Political Violence, Conflict Processes, Protests, US Foreign Policy, Government Repression, Asymmetric Bargaining.

### Michael Krantz, CPP, Ph.D.

#### In the Works:

On-going applied research regarding best practices for curriculum, faculty development, and articulation agreements for university partnerships with community colleges.

Distance Education Accrediting Committee: Certified SME for universities and colleges seeking accreditation for their homeland/national security degree programs.

MMC Criminal Justice/Homeland Security Advising Board: Research and development for program growth.

#### Interest Areas

Student Learning Models, Human Behavior, Chaos Theory.



## FACULTY RESEARCH (CONT'D)

### Laszlo Molnar, Ph.D.

#### Recent Publications

Zsarnóczky, M. & Molnár, L. & Garamvölgyi, L. (2019) *Bűnmegelőzés a turizmus által érintett közösségekben* (in Hungarian, English translation: Crime Prevention In Communities Affected By Tourism, ISBN 978-963-396-119-3) III. International Scientific Conference on Tourism and Security, Pannon University, Hungary, May 2019.

#### Recent Conferences

*Family Business Forum*, Fairleigh Dickinson University, Panelist, March 27, 2018.

*Opportunity to build your Europe Business in STEM*, TIE New Jersey, Speaker, August 27, 2018.

*Connecting Bridges and Borders Conference*, Moderator, Budapest, October 16, 2018.

*Data, The New Commodity, Laws & Regulations (From NJ to California & Around the World)*, NJCU School of Business, Panelist, September 5, 2019.

#### In the Works

On-going research regarding best practices for use of simulation exercises, role-play simulations in teaching negotiation.

AI-powered Solutions in Education.

#### Interest Areas

Diplomacy, Foreign Policy, International Negotiations, International and National Security, Nuclear Nonproliferation, Cybersecurity.

### Kutub Thakur, Ph.D

#### Recent Publications

Bhattacharya, P., Thakur, K., Tseng, J., & Alhayajneh, A. (2019). Malicious Software Types and Counter Measures. *Journal of Advanced Research in Dynamical and Control Systems*, 11(1).

Thakur, K., Tseng, J., & Blende, S. (2018). Cyber Security Enforcement in the Internet of Things: Present and Future Perspective. *Journal of Advanced Research in Dynamical and Control Systems*, 10(8), 88–92.

Bhende, S., Thakur, K., Teseng, J., Ali, L., & Wang, N. (2018). Character Recognition Using Hidden Markov Models. *International Journal of Recent Technology and Engineering*, 7(4S2).

Ali, L.M., Thakur, K. & Atabatele, B. (2019). Challenges of Cyber Security and Emerging Trends, 107 – 112.

#### In the Works

Using Macro Expansion Algorithm to Support Schema Tron New Features in Integrated Syntax and Semantic Validation for Services Computing.

Reducing Complexity of Maintaining Semantic Constraints with a Knowledge-Based Approach.

Extending OWL to Support Custom Relations in Knowledge-Driven Intelligent Systems.

Second-Level Defense for Protecting an Identity Management Framework.

Assigning Privilege in a Network Using IPCOP.

Authorization Checks in Static Code Analysis.

Development of Machine Learning based Ensemble Solution for Intrusion Detection.

#### Interest Areas

Cyber Security, Digital Forensics, Machine Learning.

### Kathleen Donohue Rennie, Ph.D., APR, Fellow PRSA

#### Recent Publications

Bryum, K. & Rennie, K. (2019). *Strategic Communication Essentials*. Great River Publishing.

#### Recent Conferences

Led two Executive Sessions at the PRSA International Conference re: *Strategic Communication Research and Planning and Strategic Research Implementation and Evaluation*, San Diego, California, Fall 2019.

One of approximately a dozen educators invited to attend the Commission on Public Relations Educational Leadership Summit, Fall 2019.

#### In the Works

Leading national research study, *2020 Practice Analysis*, with data gathering ending December 1, 2019 and results to be published in early 2020.

On two research teams through the Commission of Public Relations Education to result in publication: *Diversity and Inclusion and Public Relations Nomenclature*.

Bryum, K. & Rennie, K., *Enhancing Perceptions of the Value of Public Relations Through MBA*.

Rennie, K.D. & Byrum, K. *A New Taxonomy for Strategic Communication Integration: A Model for Incorporating Strategic Communication into Graduate Degree Programs*.

#### Interest Areas

Integrated Marketing Communication, Crisis Communication, Teaching Strategic Communication to Graduate Students in Non-Communication Programs, Diversity and Inclusion.

### Michael Wiltsey, Ph.D

#### Recent Conferences

Presenter: *Comprehensive Overview of New Jersey Officer Resiliency Program*, March 29, 2019, Rowan College of Burlington County, Mount Laurel, NJ.

Panel Discussion: *Law Enforcement and First Responder Suicide, Moderator*, World Suicide Prevention Day, Burlington County, September 10, 2019.

Presenter: *Overview of New Jersey Officer Resiliency Program, Resiliency Summit*, October 10 & 11, 2019, Trenton War Memorial, Trenton, NJ.

#### In the Works

Building a Resiliency Program for Law Enforcement Officers in New Jersey.

Cognitive Biases in Forensic Examinations.

Designing a Comprehensive Forensic Services Laboratory.

#### Interest Areas

Crime Scene Investigation, Analysis, and Reconstruction; Forensic Analysis; Investigations and Analysis; Forensic Psychology; Investigative & Police Psychology.





## DSC PROGRAM ALUMNI RESEARCH

### Anthony Abruzzese, *Med, MS, DSc*

Educational Technologist, Healthcare Emergency Management, Department of Anatomy & Neurobiology, Boston University School of Medicine.

#### Recent Presentations

Abruzzese, A. (October, 2019). Resilience—Universally good or a mixed bag: The impact of governance and assessment. Presented at the 12th Annual Homeland Defense & Security Education Summit. *Public Interest Security: Leveraging Education to Connect Policy and Operations with American Perspectives of Homeland Security*, Monterey, CA.

Thomas, K. C., Burke, J. J., Shaafi Kabiri, N., Cote, A., Corse, T. K., Winter, E. A. & Abruzzese, A., (2019). Hurricane Irene: Here, gone, and back again. *International Journal of Security, Preparedness, and Resilience Education*, 8(4).

#### In the Works

Finish an article examining the challenges of assessing community resilience for the *International Journal of Security, Preparedness, and Resilience Education (IJSPRE)*.

An expanded article focusing on the unintended consequences of resilience building in communities.

#### Areas of Interest

Risk and Crisis Communication, Resilience, Community Resilience, the Role of Governance in Disaster Policy, Emergency Management as Public Policy, Community Development and Resilience, Emergency Management and Homeland Security Education.

### Michael Barany, *DSc*

Military and Veterans Coordinator with Middlesex County College Adjunct Professor with NJCU's National Security Studies.

#### In the Works

Barany, M. (2020). *Student Veteran to College Veteran Coordinator: How Experiences Can Lead to Success*. 2020 NASPA Symposium on Military-Connected Students. Seattle, WA.

#### Areas of Interest

Radicalization & Extremism, Homeland Security & Defense, National & International Security, Resilience, Community Resilience, Military Readiness.

### Steven Fuentes, *DSc*

Special Agent/ICE Fellow—Homeland Security Investigations, ICE Office of Congressional Relations, Department of Homeland Security.

#### Recent Presentations

Fuentes, F. (2019). Universities' Vulnerabilities to Export Control Laws.

#### Professional News

Currently assigned to the Committee on Homeland Security for the U.S. House of Representatives. Duties include conducting research for the Committee and drafting legislation for Committee Members to introduce.

Currently conducting research and draft legislation for Border Security Issues, amending Export Control Laws, and other proposals for protecting sensitive research conducted at universities and research institutions.

#### Areas of Interest

Counterproliferations.

### Ronald J. Hurley, *DSc, CPP*

Associate Vice President—New Jersey City University Department of Public Safety

#### Recent Presentations

Presented at the Hispanic Association of Colleges and Universities, Puerto Rico. *Routine, Novel, Emergent – A Renaissance Movement toward Resiliency*, Spring 2019.

Campus/University Public Safety Association, Atlantic City, NJ.

#### In the Works

Presenter, the National Campus Safety Summit, Las Vegas, Nevada. *Crisis Leadership*, February, 2020.

#### Professional News

Honored as 2019 Campus Safety Director of the Year / Campus Safety Magazine <https://www.campusafetymagazine.com/>

#### Areas of Interest

Crisis Leadership, Emergency Management and School Security.

### Bernard A. Jones, *DSc, CBCP, MBCI*

Assistant Professor, St. John's University, Division of Criminal Justice, Legal Studies & Homeland Security.

#### Recent Presentations

FEMA Region II Higher Education Academic Collaborative, *St. John's Academic Programs and Simulation Center*, St. John's University, Queens, New York. August 7, 2019.

CUNY Risk Management & Business Continuity Council, *The Importance of Leadership & Emotional Intelligence in Emergency Management*, CUNY Central Office, New York, New York. July 29, 2019.

ACP Webinar Series, *Data Measurement & Visualization meets Business Continuity Metrics—Harness the Power of Measurement & Visualization to help enhance your BCM Program*, Association of Continuity Professionals. April 17, 2019.

21st Annual Emergency Management Higher Education Symposium, *Critical Infrastructure Organizational Resilience—A Focus on Law Enforcement First Responders*, FEMA, Emmitsburg, Maryland. April 16, 2019.

21st Annual Emergency Management Higher Education Symposium, *Increasing Emergency Management Resilience in the Health Care and Public Health Sector*, FEMA, Emmitsburg, Maryland. April 16, 2019.

21st Annual Emergency Management Higher Education Symposium, Resilience and Emergency Management: *Exploring the Psychological Dynamics of Leadership*, FEMA, Emmitsburg, Maryland. April 16, 2019.

15th Annual IAFIE Conference, *Utilizing Community-Based Intelligence to Increase Resilience in Vulnerable Populations at a National Level*, International Association for Intelligence Education, Queens, New York. April 15, 2019.

Interdisciplinary Faculty Research Presentation, *Equity for All: Research into Student Rates of Success and Closing the Equity Gaps*, Academic Center for Equity and Inclusion, Queens, New York. April 8, 2019.

2019 Frontiers in Resilience Symposium, *Successful Public-Private Partnerships Initiatives and the importance of Measuring Organizational Resilience*, George Mason University's Schar School of Policy and Government and Sandia National Laboratories, Arlington, Virginia. January 15, 2019.

SURGE 2018—Assurance Software Annual User Conference, *Deeper Dive into Organizational Resilience Key Indicators Break Out Session*, Assurance Software Inc., Lafayette Hill, PA. October 30, 2018.

SURGE 2018—Assurance Software Annual User Conference, *Emergency Preparedness: Measuring Organizational Resilience Theories & Tools*,

Assurance Software Inc., Lafayette Hill, PA, USA. October 30, 2018.

St. John's University—New York Local Surge Regional User Group (RUG), *Incident Response & Business Continuity—Cascading Events and How Being Lucky Shouldn't be the Norm*, Assurance Software Inc., Queens, New York. October 4, 2018.

#### In the Works

Jones, B. A. *Emergency Management: Best Practices*. *Encyclopedia of Security and Emergency Management*. Springer. <https://link.springer.com/reference-work/10.1007/978-3-319-69891-5>

Jones, B. A. *Public-private partnerships: Emergency management*. *Encyclopedia of Security and Emergency Management*. Springer. <https://link.springer.com/reference-work/10.1007/978-3-319-69891-5>

Jones, B. A., Fazzino, L. *Risk analysis: National and international standards (that lead to a difference in policy/procedures)*. *Encyclopedia of Security and Emergency Management*. Springer. <https://link.springer.com/reference-work/10.1007/978-3-319-69891-5>

Jones, B. A., *Emergency management: Emergency alert systems*. *Encyclopedia of Security and Emergency Management*. Springer. <https://link.springer.com/reference-work/10.1007/978-3-319-69891-5>

Jones, B. A. *Emergency operations center*. *Encyclopedia of Security and Emergency Management*. Springer. <https://link.springer.com/reference-work/10.1007/978-3-319-69891-5>

Jones, B. A., Fanuzzi, R., Hartofolis, R., Bowman, R., Ray, T. *Racial, and Ethnic Disparities in Disaster Preparedness and Response* (1st ed., vol. 1). Hershey, Pennsylvania: IGI Global. <https://www.igi-global.com/about>

Jones, B. A., Maxfield, J., Noll, G. *Can Resilience be Taught?*, *International Journal of Security, Preparedness, and Resilience—IJSPRE*.

Shea, T., Jones, B.A., *Unconventional and External Police Misconduct Investigation Processes: Police Officer*.

#### Professional News

2018–2019 Academic Year—*Faculty Recognition Award*, St. John's University, Division of Criminal Justice, Legal Studies & Homeland Security

#### Areas of Interest:

Organizational Resilience, Disaster & Emergency Management, Business Continuity, Metrics & Data Visualization, Racial & Ethnic Disparities in Disaster Preparedness & Response, Critical Infrastructure Resource Protection & Resilience.