

## KEVIN MATTHE CARAMANCION

College of Emergency Preparedness, Homeland Security, and Cybersecurity (CEHC)  
University at Albany, State University of New York  
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### ACADEMIC APPOINTMENTS

- 2019-Present      Lecturer (Summer and Winter terms), INF and EHC Programs, College of Emergency Preparedness, Homeland Security, and Cybersecurity, University at Albany, SUNY
- 2019-2022      Graduate Teaching Assistant (Fall and Spring terms), INF and EHC Programs, College of Emergency Preparedness, Homeland Security, and Cybersecurity, University at Albany, SUNY
- 2015-2017      Graduate Research Assistant, College of Computer Studies, De La Salle University
- 2013-2019      Full-time Instructor of Record, IT, IS, and CS Programs, College of Information and Computing Sciences, University of Santo Tomas
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### ACADEMIC PREPARATIONS

- 2019-2022      PhD in Information Science, University at Albany, SUNY  
Dissertation: *An Interdisciplinary Assessment of the Prophylactic Educational Treatments to Misinformation and Disinformation*  
Committee Co-Chairs/Advisors: Dr. George Berg & Dr. Xiaojun (Jenny) Yuan  
External Committee Member: Dr. Martha Jo Asselin
- 2014-2017      MSc in Information Technology, De La Salle University  
Thesis: *Modelling Maternal Health Data in the Philippines using Machine Learning*  
Committee Chair/Advisor: Dr. Jordan Aiko Deja  
Committee Members: Dr. Michelle Renee Ching, Dr. Estefanie Ulit
- 2009-2013      BSc in Information Technology, University of Santo Tomas  
Capstone: *Lab Support: A Computer Laboratory Class Management Support System*  
Committee Chair/Advisor: Mr. Raul Ponay, MSCS  
Committee Members: Mr. William Cortez, MBA, Ms. Mildred Duran, MS

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## AWARDS AND HONORS

- 2022 Best Paper Presentation, IEEE World AI IoT Congress 2022 (AIIoT 2022), Seattle, WA, USA
- 2022 Best Paper Presentation, The 2022 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS 2022), Toronto, ON, Canada
- 2020 Best Paper Presentation, The 3rd International Conference on Information and Computer Technologies (ICICT 2020), San Jose, CA, USA
- 2017 Most Outstanding Graduate Thesis, College of Computer Studies, De La Salle University, Manila, Philippines
- 2015 Teaching Excellence (Undergraduate Category), Department of Information Technology, University of Santo Tomas, Manila, Philippines
- 2013 Cum Laude and Program Valedictorian (BSIT), University of Santo Tomas, Manila, Philippines
- 2013 Gold Medal (1<sup>st</sup> place) in Capstone Poster Presentation, University of Santo Tomas, Manila, Philippines
- 2009-2013 Dean's Lister (All Semesters, BSIT), University of Santo Tomas, Manila, Philippines

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## REFEREED ARTICLES

**Caramancion, K. M.,** Li, Y., Dubois, E., & Jung, E. S. (2022, April). The Missing Case of Disinformation from the Cybersecurity Risk Continuum: A Comparative Assessment of Disinformation with Other Cyber Threats. *Data*, 7(4), 49.

**Caramancion, K. M.** (2022, January). The Role of User's Native Language in Mis/Disinformation Detection: The Case of English. In *2022 IEEE 12th Annual Computing and Communication Workshop and Conference (CCWC)* (pp. 0260-0265). IEEE.

**Caramancion, K. M.** (2021, December). The Relation of Online Behavioral Response to Fake News Exposure and Detection Accuracy. In *2021 IEEE 12th Annual Ubiquitous Computing, Electronics and Mobile Communication Conference (UEMCON)* (pp. 0097-0102). IEEE.

**Caramancion, K. M.** (2021, November). The Role of Information Organization and Knowledge Structuring in Combatting Misinformation: A Literary Analysis. In *International Conference on Computational Data and Social Networks* (pp. 319-329). Springer, Cham.

**Caramancion, K. M.** (2021, October). The Role of Subject Confidence and Historical Deception in Mis/Disinformation Vulnerability. In *2021 IEEE 12th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)* (pp. 0541-0546). IEEE.

**Caramancion, K. M.** (2021, October). Textual vs Visual Fake News: A Deception Showdown. In *2021 IEEE International Conference on Cloud Computing in Emerging Markets (CCEM)*. IEEE.

**Caramancion, K. M.** (2021, September). The Relation Between Time of the Day and Misinformation Vulnerability: A Multivariate Approach. In *2021 IEEE 16th International Conference on Computer Sciences and Information Technologies (CSIT)* (Vol. 1, pp. 150-153). IEEE.

Poehlmann, N., **Caramancion, K. M.**, Tatar, I., Li, Y., Barati, M., & Merz, T. (2021, July). The Organizational Cybersecurity Success Factors: An Exhaustive Literature Review. *Advances in Security, Networks, and Internet of Things*, 377-395.

**Caramancion, K. M.** (2021, May). Understanding the Association of Personal Outlook in Free Speech Regulation and the Risk of being Mis/Disinformed. In *2021 IEEE World AI IoT Congress (AIIoT)* (pp. 0092-0097). IEEE.

Keskin, O. F., **Caramancion, K. M.**, Tatar, I., Raza, O., & Tatar, U. (2021, May). Cyber Third-Party Risk Management: A Comparison of Non-Intrusive Risk Scoring Reports. *Electronics*, 10(10), 1168.

**Caramancion, K. M.** (2021, April). The Demographic Profile Most at Risk of being Disinformed. In *2021 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS)* (pp. 1-7). IEEE.

**Caramancion, K. M.**, & Abesamis, P. P. (2020, December). Human Capacity Organizational Roadmap for E-Government Interoperability in the Philippines. In *2020 International Conference on Computational Science and Computational Intelligence (CSCI)* (pp. 1103-1107). IEEE.

**Caramancion, K. M.** (2020, September). Understanding the Impact of Contextual Clues in Misinformation Detection. In *2020 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS)* (pp. 1-6). IEEE.

**Caramancion, K. M.** (2020, March). An Exploration of Disinformation as a Cybersecurity Threat. In *2020 3rd International Conference on Information and Computer Technologies (ICICT)* (pp. 440-444). IEEE.

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## NON-REFEREED (INVITED) ARTICLES

**Caramancion, K. M.** The Disputed Inequality by Open Linked Data: A Position Paper. In *Privacy and Pandemic: Responsible Uses of Technology and Health Data*. Future of Privacy Forum.

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## FORTHCOMING REFEREED (ACCEPTED) ARTICLES

**Caramancion, K. M.** (2022). Same Form, Different Payloads: A Comparative Vector Assessment of DDoS and Disinformation Attacks.

**Caramancion, K. M.** (2022). An Exploration of Mis/Disinformation in Audio Format Disseminated in Podcasts: A Case Study of Spotify.

**Caramancion, K. M.** (2022). Using Timer Data to Conjunct Self-Reported Measures in Quantifying Deception.

Abesamis, P. P. & **Caramancion, K. M.** (2022). Multiple-Case Study on the Perceived Impacts of Philippine Identification System in Organizational Control: Focusing on E-government Services.

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## RESEARCH PRESENTATIONS

(All single-authored unless otherwise noted)

June 6-9, 2022      *Using Timer Data to Conjunct Self-Reported Measures in Quantifying Deception*  
In 2022 IEEE World AI IoT Congress (AIIoT 2022)  
Seattle, WA, USA

June 1-4, 2022      *An Exploration of Mis/Disinformation in Audio Format Disseminated in Podcasts: A Case Study of Spotify*  
In 2021 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS 2022)  
Toronto, ON, Canada

June 1-4, 2022      *Same Form, Different Payloads: A Comparative Vector Assessment of DDoS and Disinformation Attacks*  
In 2021 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS 2022)  
Toronto, ON, Canada

Jan 26-29, 2022      *The Role of User's Native Language in Mis/Disinformation Detection: The Case of English*  
In 12<sup>th</sup> Annual Computing and Communication Workshop and Conference (CCWC 2022)  
Las Vegas, NV, USA

Dec 1-4, 2021      *The Relation of Online Behavioral Response to Fake News Exposure and Detection Accuracy*

- In 2021 IEEE 12th Annual Ubiquitous Computing, Electronics, and Mobile Communication Conference (UEMCON 2021)  
New York, NY, USA
- Nov 15-17, 2021 *The Role of Information Organization and Knowledge Structuring in Combatting Misinformation: A Literary Analysis*  
In 2021 2nd International Symposium on Fact-Checking, Fake News and Malware Detection in Online Social Networks (OSNs)  
Montreal, QC, Canada
- Oct 27-30, 2021 *The Role of Subject Confidence and Historical Deception in Mis/Disinformation Vulnerability*  
In 2021 IEEE 12th Annual International Technology, Electronics, and Mobile Communication Conference (IEMCON 2021)  
Vancouver, BC, Canada
- Oct 27-30, 2021 *Textual vs. Visual Fake News: A Deception Showdown*  
In Tenth IEEE International Conference on Cloud Computing in Emerging Markets (CCEM 2021)  
Jersey City, NJ, USA
- Sep 22-25, 2021 *The Relation Between Time of the Day and Misinformation Vulnerability: A Multivariate Approach*  
In IEEE 16th International Conference on Computer Science and Information Technologies (CSIT 2021)  
Lviv, Ukraine
- May 10-13, 2021 *Understanding the Association of Personal Outlook in Free Speech Regulation and the Risk of being Mis/Disinformed*  
In 2021 IEEE World AI IoT Congress (AIIoT 2021)  
Seattle, WA, USA
- Apr 21-24, 2021 *The Demographic Profile Most at Risk of being Disinformed*  
In 2021 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS 2021)  
Toronto, ON, Canada
- Dec 16-18, 2020 *Human Capacity Organizational Roadmap for E-Government Interoperability in the Philippines*  
Co-authored with Dr. Pierre Pauline Abesamis  
In 2020 International Conference on Computational Science and Computational Intelligence (CSCI 2020)  
Las Vegas, NV, USA
- Oct 27-28, 2020 *The Disputed Inequality by Open Linked Data: A Position Paper*

In Privacy & Pandemics: Responsible Uses of Technology and Health Data During Times of Crisis — An International Tech and Data Conference  
Washington, DC, USA

Sep 9-12, 2020 *Understanding the Impact of Contextual Clues in Misinformation Detection*  
In 2020 IEEE International IOT, Electronics and Mechatronics Conference (IEMTRONICS 2020)  
Vancouver, BC, Canada

July 27-30, 2020 *The Organizational Cybersecurity Success Factors: An Exhaustive Literature Review*  
Co-authored with Ms. Nancy Poehlmann, Ms. Irem Tatar, Ms. Yueqi Li, Mr. Mehdi Barati, Dr. Terry Merz  
In 2020 International Conference on Security and Management (SAM'20)  
Las Vegas, NV, USA

Mar 9-12, 2020 *An Exploration of Disinformation as a Cybersecurity Threat*  
In 2020 3rd International Conference on Information and Computer Technologies (ICICT 2020)  
San Jose, CA, USA

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## EXTENDED ABSTRACTS AT ACADEMIC MEETINGS

Dec 5-9, 2021 *Demystifying the Variations in Non-intrusive Cyber Risk Scores: A Comparative Analysis on Vendors*  
Co-authored with Ms. Irem Tatar, Mr. Omer Keskin, Dr. Unal Tatar  
In Society for Risk Analysis (SRA) 2021 Annual Meeting  
Fully Online / Virtual

Oct 30, 2021 *Predicting the Upcoming Times, Topics, and Actors of Fake News*  
Co-authored with Dr. Xiaojun Yuan  
In 2021 ASIS&T SIG AI Workshop  
Salt Lake City, UT, USA

Oct 30, 2021 *Designing Responsible AI Systems for Older Adults: Opportunities and Challenges*  
Co-authored with Dr. Xiaojun Yuan, Ms. Bahareh Ansari, Mr. Mehdi Barati, Dr. Benjamin Yankson, Dr. George Berg, Dr. DeeDee Bennett Gayle  
In 2021 ASIS&T SIG AI Workshop  
Salt Lake City, UT, USA

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## REVIEWING/PROGRAM COMMITTEE

Reviewer, Mathematics, 2022, Multidisciplinary Digital Publishing Institute (MDPI)

*Reviewer*, 11th International Conference on Cryptography and Information Security (CRYPIS 2022), 2022, Toronto, Ontario, Canada  
*Reviewer*, 3rd International Conference on Integrating Technology in Education (ITE 2022), 2022, London, England, United Kingdom  
*Reviewer*, 3rd International Conference on Information Systems and Software Technologies (ICI2ST 2022), 2022, Quito, Ecuador  
*Reviewer*, 13<sup>th</sup> International Conference on Social Informatics (SocInfo2022), 2022, Glasgow, Scotland, United Kingdom  
*Reviewer*, 5th International IOT, Electronics, Mechatronics Conference (IEMTRONICS 2022), 2022, Toronto, Ontario, Canada  
*Reviewer*, Aslib Journal of Information Management, 2022, Emerald Publishing  
*Reviewer*, Information Processing and Management, 2022, Elsevier  
*Reviewer*, 15th International Conference on ICT, Society and Human Beings 2022 (ICT 2022), Lisbon, Portugal  
*Reviewer*, IEEE World Congress on Computational Intelligence (WCCI2022), 2022, Padua, Italy  
*Reviewer*, International Journal of Information Technology & Decision Making (IJITDM), 2022, World Scientific  
*Reviewer*, 42nd International Conference on Information Systems (ICIS) 2021 Conference, Austin, Texas, USA  
*Reviewer*, 4th International IOT, Electronics, Mechatronics Conference (IEMTRONICS 2021) 2021, Toronto, Ontario, Canada  
*Reviewer*, New Trends in Information Science Research (NTIR) Conference 2021, Albany, New York, USA

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## GRANTS

### *Internal*

Project: The Role of User's Native Language in Mis/Disinformation Detection: The Case of English

Value: \$200

Source: University at Albany, State University of New York Graduate Student Association (2022)

Project: An Interdisciplinary Assessment of the Prophylactic Educational Treatments to Misinformation and Disinformation (Dissertation Grant)

Value: \$475

Source: University at Albany Dissertation Research Fellowship Award, 2021-2022

Project: The Role of Subject Confidence and Historical Deception in Mis/Disinformation Vulnerability

Value: \$290

Source: University at Albany, State University of New York Graduate Student Association (2021)

Project: Human Capacity Organizational Roadmap for E-Government Interoperability in the Philippines

Value: \$550

Source: State of New York Graduate Student Employee Union (2021)

Project: Increasing the Social Reach & Engagements of Pop-up Shop and Book Bike Initiative (A Non-Profit Project)

Value: \$2,500

Source: University at Albany, Office of Career & Professional Development (2021)

Role: Principal Investigator

Project: The Demographic Profile Most at Risk of being Disinformed

Value: \$550

Source: University at Albany, State University of New York Graduate Student Association (2021)

Project: An Exploration of Disinformation as a Cybersecurity Threat

Value: \$1,000

Source: State of New York Graduate Student Employee Union (2020)

Project: Understanding the Impact of Contextual Clues in Misinformation Detection

Value: \$650

Source: University at Albany, State University of New York Graduate Student Association (2020)

### *External*

Project: Liberty, Responsibility, and Mental Health

Value: \$850

Source: Institute for Humane Studies (2021)

Project: Free Speech, Free Press, and Misinformation

Value: \$500

Source: Institute for Humane Studies (2020)

Project: The Disputed Inequality of Open Data

Value: \$1,500

Source: Future of Privacy Forum (2020)

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## **TECHNICAL CERTIFICATIONS**

IBM DB2 Academic Associate

Cisco Certified Network Associate (CCNA Routing and Switching)

Microsoft Technology Associate for Database Management Systems

Microsoft Technology Associate for Networking Fundamentals

SAP Business One

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## **TEACHING EXPERIENCE**

(Instructor unless otherwise noted)



### **University at Albany, SUNY**

1. Introduction to Networks and Systems (SU20, WI21, SU21, SU22)
2. Critical Infrastructure (WI22)
3. \*Information in the 21<sup>st</sup> Century (F19, SP20, F20, SP21)
4. \*Emergency Preparedness, Homeland Security, and Cybersecurity (F21, SP22)

\*Role as Graduate Teaching Assistant

### **University of Santo Tomas, Manila, Philippines**

1. Database Management Systems (DB2, MySQL, MS Access)
2. Logic Formulation and Programming (C, C++, Java, Assembly, Visual Basic)
3. Data Communication and Networking (CCNA, CCNP courses)
4. Systems Analysis and Design
5. Project Management and Software Engineering
6. Theories and Practices of Cybersecurity
7. Productivity Tools (MS Office, Adobe Creative Suite)

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## **MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS**

*Senior Member*, Institute of Electrical and Electronics Engineers (IEEE)

*Senior Member*, IEEE Computer Society

*Senior Member*, IEEE Computational Intelligence Society

*Senior Member*, IEEE Women in Engineering (IEEE WIE)

*Senior Member*, IEEE Young Professionals

*Professional Member*, Association for Computing Machinery (ACM)

*Professional Member*, Association for Computing Machinery's Council on Women in Computing (ACM-W)

*Professional Member*, Association for Information Science and Technology (ASIS&T)

*Member*, National Center for Faculty Development & Diversity (NCFDD)

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## **SERVICE TO UNIVERSITIES**

### **University at Albany, SUNY**

*Judicial Board Member*, Graduate Student Association (GSA), 2020-2022

*DARS Undergraduate Advisor*, College of Emergency Preparedness, Homeland Security, Cybersecurity (CEHC), 2020-2021

*Dean's Student Leadership Council Member*, College of Emergency Preparedness, Homeland Security, Cybersecurity (CEHC), 2019-2022

### **University of Santo Tomas, Manila, Philippines**

*Vice Chair*, Department of Information Technology, 2017-2019

*Academic Advisor*, Department of Information Technology, 2015-2017

*Course Coordinator*, Networking courses, 2015-2019

*Course Coordinator*, Database Management Systems courses, 2013-2015

*Course Coordinator*, Systems Analysis and Design courses, 2013-2015

*Graduation Committee Member, Faculty of Engineering, 2013-2015*

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## **PROGRAMMING LANGUAGES AND OTHER TECHNICAL PROFICIENCIES**

SPSS  
MS Macro Programming  
Visual Basic  
Python  
C and C++  
Java  
Assembly (TASM)  
Visual Basic  
DB2, MySQL, and NoSQL  
Cisco Packet Tracer (Network Simulation & Programming)  
Weka

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## **MEDIA APPEARANCES / FEATURED IN**

On Being the Youngest (at just 20-year-old) Instructor of UST's Faculty of Engineering  
By: De Leon, N. (Circulation 2014-2015). "One on One with The One", *Thomasian Engineer Journal*

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## **PAST AND CURRENT MENTEES / TECHNICAL ADVISORSHIP**

### **De La Salle University, Manila, Philippines**

*Dr. Pierre Pauline Abesamis*, Graduated, Doctor of Information Technology (DIT), 2021  
*Mr. Mark Emmanuel Malimban*, In-Progress, MSc.IT Candidate  
*Mr. Oliver Fortades*, In-Progress, MSc.IT Candidate  
*Mr. Joshua Dizon*, In-Progress, MSc.IT Candidate  
*Ms. Christel Somodio*, In-Progress, MSc.IT Candidate

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## **PAST CONSULTANCIES / SOFTWARE DEVELOPMENT PROJECTS**

### **(Philippines, 2013 – 2018)**

DSWD, *Child Pornography Case and Incident Monitoring and Mapping Application for DSWD*

DEPED, *Key Performance Analytics to Achieve Data-Driven Decisions in Improving Public Elementary Schools in National Capital Region*

National Telecommunications Commission, *Descriptive Analytics: Multivariable Trend Analysis based on National Telecommunications Commission's Blacklisted Phones in NCR*

Medical Center Manila, *Predictive Analysis on Materials Management of Medical Center Manila for Efficient Utilization of Healthcare Supplies*

Department of Health, *A Study on the Leading Communicable Diseases for Public Health Surveillance in Region IV-A (CALABARZON) using Descriptive Analytics for the Department of Health*

Hexamindz Corporation, *Predictive Analytics for Economic Order Quantity of Construction Materials for Hexamindz Corporation*

Office of Planning and Development of the University of Santo Tomas, *Rector's Report: Web-Based Report Generator for the University of Santo Tomas*

National Anti-Poverty Commission, *An Analysis on the Core Local Poverty Indicators as Predictors of Poverty Incidence*

Phoenix Publishing House Inc., *Exploring Order Behavior Patterns on Inventory Management using Descriptive Analytics for ABC Publishing House Inc.*

Parkwood Greens Executive Village Community, *Relationship Management System for Parkwood Greens Executive Village Administration*

MMDA, *A Predictive Analysis on the Traffic Conditions along EDSA as an Aid for Traffic Control Development Program*

Land Bank of the Philippines, *Strategic Information Systems Planning for Land Bank of the Philippines*

Merck Inc., *Sales Monitoring System with Integrated Descriptive Analytics Report Generation for Merck Inc.*

Fredley Food and Beverages, Inc., *Human Resource Information System for Fredley Food and Beverages, Inc.*

Better Option Pharmaceuticals Inc., *A Predictive Analytics for Forecasting Product Demand for Better Option Pharmaceuticals Inc.*

TESDA, *Business Analytics as A Tool for Supporting Deployment Opportunities and Academic Strategies for TESDA and its Graduates within Metro Manila*

OrangeFix, *Online Learning Management System with Applied Analytics for Balayan Polytechnic Colleges*

Nu-Crest International Manufacturing Corporation, *Material Resource Planning, and Inventory Control System for Nu-Crest International Manufacturing Corporation*