CURRICULUM VITAE MD. MINHAZ CHOWDHURY
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Google Scholar: https://scholar.google.com/citations?user=0GkEhNAAAAAJ&hl=en

I am a tenure track assistant professor of the computer science department at the East Stroudsburg University of Pennsylvania. East Stroudsburg University is the National Centre of Academic Excellence in Cyber Defence Education, designated by DoD and NSA. I was the interim director and graduate coordinator for the Cyber program at the same university from March 2019 to August 2021, for 2.5 years.

Education

08/2013-08/2018	North Dakota State University	PhD	Deception in Cyberspace: Con-Man Attack in Cloud Services Dissertation focus: cyber security Academic Adviser: Dr Kendall E. Nygard(kendall.nygard@ndus.edu)	08/2013-08/2018
08/2009-08/2014	North Dakota State University	MS	An artificial immune system heuristic in a smart electrical grid Dissertation focus: artificial immune system, smart electrical grid Academic Adviser: Dr Kendall E. Nygard	08/2009-08/2014
05/2005-05/2008	Daffodil International University	BS	Performance evaluation of mobile ad hoc network routing protocols using NS2 simulations. Academic Adviser: Dr M. Lutfar Rahman	05/2005-05/2008

Work Experience

Tenure track assistant professor of the computer science department at the East Stroudsburg University of Pennsylvania	August 2018 to present
Assistant director for the Cyber program at the East Stroudsburg university	September 2021 to present
Interim director and graduate coordinator for the Cyber program at the East Stroudsburg university	March 2019 to August 2021
Assistant director for the Cyber program at the East Stroudsburg university	February 2019
Software Developer as a Graduate Research Assistant at North Dakota State University, at AES Dickinson R/E Center. Supervisor: Joseph Latimer (joseph.latimer@ndsu.edu)	2015 March-2015 November
Programmer at Blue Cross Blue Shield of North Dakota Supervisor: Joseph Johnson Robert Williams (rcw1701@hotmail.com, Phone: 7012005059)	September 2012-February 2015
Graduate Research Assistant (at North Dakota State University Computer Science Department) With the support of US Department of Defence Grant Supervisor: Dr Kendall E. Nygard Grant no: FAR0013097, Sponsor: US Department of Defence Grant: Designing Robust and Secure Heterogeneous Sensor Network Grant Start Date: 7/15/2008, Grant End Date: 7/14/2011	January 2010-December 2010

Professional Membership: IEEE member, member ID 95635186, IEEE Region: R2-Eastern USA.

Grants

Internal Grants	
1. Graduate Student Researcher Summer 2021, funding amount 3,000$ with additional 500$ travel grant.	Summer 2021
2. S.U.R.E. Summer Undergraduate Research Experience 2021, funding amount 2,500$ with additional 500$ travel grant.	Summer 2021
External Grants	
3. PI for the US Department of Defense Cyber Security Scholarship or CySP Grant for CAE-CDE institutions. East Stroudsburg University students, receiving this award, are fully covered for tuition and fees for Fall 2021 and Spring 2022. The Grant amount is $154,056.	Spring 2021
4. PI for the CySP Scholarship Grant for CAE CDE institutions. Grant amount is $201,627.	Spring 2020
5. Co-PI for the CySP Scholarship Grant for CAE CDE institutions.	Spring 2019

Volunteer in Cyber Security Education Establishment

Volunteered as instructor for "Crack the Code: Tech Camp for Girls" (uCodeGirl Cybersecurity Workshop at Minnesota State University Moorhead) Workshop coordinator: Bethlehem Gronneberg (betty.gronneberg@gmail.com) Supervisor: Dr Kendall E. Nygard	Summer 2017
Volunteered as instructor for Native American Summer School Program on cybersecurity at North Dakota State University Supervisor: Dr Kendall E. Nygard	Summer 2016
Served as a Graduate Student Affiliate, at the Institute for Cyber Security Education and Research at North Dakota State University	Fall 2017- Summer 2018

Student Research Involvement

Supervised total 7 undergraduate Thesis and two Cyber Security MS thesis students	Fall 2018-Spring 2021
Student research involvement outcome: 5 conference papers in 2019, 2 in 2020, 16 in 2021	2019-2021

Served as Reviewer and Program Committee Member

Reviewer for the Journal of Applied Sciences, an open access journal by MDPI, impact factor 2.679.	2021
Reviewer/technical committee member for the 13th International Multi-Conference on Complexity, Informatics, and Cybernetics: IMCIC 2022, March 8 - 11, 2022, Orlando, Florida, USA.	2021
Served on one of the panels reviewing proposals for the NSF program	2021
Reviewer for the Springer journal "Complex & Intelligent Systems" with impact factor 4.927 in 2020 (https://www.springer.com/journal/40747)	2021
Program committee member for DSA 2021, the 8th International Conference on Dependable Systems and their Applications, sponsored by the IEEE Reliability, Yinchuan, China, August 5.	2021
Technical committee member for the 2021 IEEE International Conference on Electro/Information Technology, USA	2021
Technical committee member for the 36th Annual Spring Conference of the Pennsylvania Computer and Information Science Educators (PACISE 2021), USA	2021
Technical committee member for the 4th International Conference on Information and Computer Technologies, Hawaii, USA.	2021
Technical committee member for the 2020 IEEE International Conference on Electro/Information Technology, USA	2020
Technical committee member for the 35th Annual Spring Conference of the Pennsylvania Computer and Information Science Educators (PACISE 2020), USA	2020
Technical committee member for the Journal the IEEE Transactions on Systems, Man and Cybernetics: Systems, USA	2019
Technical committee member for the 31st International Conference on Computer Applications in Industry and Engineering (CAINE 2018), USA	2018

Research Interest: Cyber Security, Trust Aware Decision Making

Collaboration Distance: Paul Erdos (Erdos Number) 3

Publications

Journal Papers

1. M Ahsan, R Gomes, **Md Minhaz Chowdhury**, KE Nygard, "Enhancing Machine Learning Prediction in Cybersecurity Using Dynamic Feature Selector", Journal of Cybersecurity and Privacy 1 (1), 199-218, 2021.
2. Kendall E. Nygard, **Md Minhaz Chowdhury**, Ahmed Bugalwi, Pratap Kotala, "People and Intelligent Machines in Decision Making", International Journal of Computers and Their Applications, 2017.

Student Research Papers

3. Andrew S. Fetter, **Md Minhaz Chowdhury**, Shadman Latif, "Raspberry Pis for Network Security", Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 7-8 October 2021, Mauritius.

4. Gianni J. Ruiz, **Md Minhaz Chowdhury**, Shadman Latif, "Comparison of OS Security", Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 7-8 October 2021, Mauritius.

5. Danny Chen, **Md Minhaz Chowdhury**, Shadman Latif, "Data Breaches in Corporate Setting", Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 7-8 October 2021, Mauritius.

6. Will Bonasera, **Md Minhaz Chowdhury**, Shadman Latif, "Denial of Service: A Growing Underrated Threat", Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 7-8 October 2021, Mauritius.

7. Sean Vandervelden, **Md Minhaz Chowdhury**, Shadman Latif, "Managing the Cyber World: Hacker Edition", Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 7-8 October 2021, Mauritius.

8. Rhiannon Cole, **Md Minhaz Chowdhury**, Shadman Latif, "Dark Web: A Facilitator of Crime", Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 7-8 October 2021, Mauritius.

9. Samuel Caston, **Md Minhaz Chowdhury**, Shadman Latif, "Risks and Anatomy of Data Breaches", Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 7-8 October 2021, Mauritius.

10. Montrel D. Morgan, **Md Minhaz Chowdhury,** Shadman Latif, "Protecting Business from Data Breach", Proceedings of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 7-8 October 2021, Mauritius.

11. Michael Pokrinchak, Shadman Latif, **Md Minhaz Chowdhury**, Distributed Denial of Service: Problems and Solutions, the 2021 IEEE International Conference on Electro Information Technology, May 14 - 15, 2021, Mount Pleasant, MI, USA.

12. Derrick Sampson, **Md Minhaz Chowdhury**, The Growing Security Concerns of Cloud Computing, the 2021 IEEE International Conference on Electro Information Technology, May 14 - 15, 2021, Mount Pleasant, MI, USA.

13. Jeremy J. Mayerski, **Md Minhaz Chowdhury**, Measures to Protect Cloud Data, the 2021 IEEE International Conference on Electro Information Technology, May 14 - 15, 2021, Mount Pleasant, MI, USA.

14. Gary Helm, Shadman Latif, **Md Minhaz Chowdhury**, Security Issues of Mobile Devices, the 2021 IEEE International Conference on Electro Information Technology, May 14 - 15, 2021, Mount Pleasant, MI, USA.

15. Mike Mattera, **Md Minhaz Chowdhury**, Social Engineering: The Looming Threat, the 2021 IEEE International Conference on Electro Information Technology, May 14 - 15, 2021, Mount Pleasant, MI, USA.

16. Jeremy Ketterer, **Md Minhaz Chowdhury**, RFID in Security and RFID Security, the 2021 IEEE International Conference on Electro Information Technology, May 14 - 15, 2021, Mount Pleasant, MI, USA.

17. Nikolay Atanassov, **Md Minhaz Chowdhury**, Mobile Device Threat: Malware, the 2021 IEEE International Conference on Electro Information Technology, May 14 - 15, 2021, Mount Pleasant, MI, USA.

18. John A. Khan, **Md Minhaz Chowdhury**, Security Analysis of 5G Network, the 2021 IEEE International Conference on Electro Information Technology, May 14 - 15, 2021, Mount Pleasant, MI, USA.

19. MA Mos, **Md Minhaz Chowdhury**, The Growing Influence of Ransomware, the 2020 IEEE International Conference on Electro Information Technology, July 31 - August 1, 2020, Naperville, IL, USA.

20. A Mos, **Md Minhaz Chowdhury**, Mobile Security: A Look into Android, the 2020 IEEE International Conference on Electro Information Technology, July 31 - August 1, 2020, Naperville, IL, USA.

21. Jacob S. Rae, **Md Minhaz Chowdhury**, Mike Jochen, Internet of Things Device Hardening Using Shodan.io and ShoVAT: A Survey, the 18th Annual IEEE International Conference on Electro Information Technology, May 2019, South Dakota, USA.

22. Matthew R. Yaswinski, **Md Minhaz Chowdhury**, Mike Jochen, Linux Security: A Survey, the 18th Annual IEEE International Conference on Electro Information Technology, May 2019, South Dakota, USA.

23. Jared LaBar, **Md Minhaz Chowdhury**, Mike Jochen, Krishna Kambhampaty, Honeypots: Security by Deceiving Threats, the Midwest Instruction and Computing Symposium 2019, April 2018, Fargo, North Dakota.

24. John Hanley, **Md Minhaz Chowdhury**, Mike Jochen, Krishna Kambhampaty, Cloud Security: Challenges, Attacks, and Techniques, the Midwest Instruction and Computing Symposium 2019, April 2018, Fargo, North Dakota.

25. Emily Ciaravino, **Md Minhaz Chowdhury**, Mike Jochen, Krishna Kambhampaty, Security Issues of SCADA Systems, the Midwest Instruction and Computing Symposium 2019, April 2018, Fargo, North Dakota.
26. Melissa Schneider, Md Minhaz Chowdhury, Mobile Devices Vulnerabilities, the 37th International Conference on Computers and their Applications, March 21-23, 2022, Virtual, MT, United States.
27. Logan Smith, Md Minhaz Chowdhury, Ethical Hacking: Skills to Fight Cybersecurity Threats, the 37th International Conference on Computers and their Applications, March 21-23, 2022, Virtual, MT, United States.

Conference Papers
28. Krishna Kambhampaty, Maryam A Maryam Alruwaythi, **Md Minhaz Chowdhury**, Kendall E. Nygard, Trust and its Influence on Technology, the Midwest Instruction and Computing Symposium 2019, April 2018, Fargo, North Dakota.
29. Krishna Kambhampaty, Maryam A Maryam Alruwaythi, **Md Minhaz Chowdhury**, Kendall E. Nygard, Identifying Malicious Users Through Behaviour, Midwest Instruction and Computing Symposium 2019, April 2018, Fargo, North Dakota.
30. Kendall E. Nygard, **Md Minhaz Chowdhury**, K Kambhampaty, Pratap Kotala, Cybersecurity Materials for K-12 Education, Midwest Instruction and Computing Symposium 2018, April 2018, Duluth, Minnesota.
31. **Md Minhaz Chowdhury**, Kendall Nygard, "Machine Learning within a Con Resistant Trust Model", The 33rd International Conference on Computers and Their Applications (CATA 2018), March 19-21, 2018, Flamingo Hotel, Las Vegas, Nevada, USA.
32. Feng Chang, K. Kambhampaty, **Md Minhaz Chowdhury**, Kendall Nygard, "Using Twitter to Determine GMO Perception Differences Between Countries", The 33rd International Conference on Computers and Their Applications (CATA 2018), March 19-21, 2018, Flamingo Hotel, Las Vegas, Nevada, USA.
33. **Md Minhaz Chowdhury**, Kendall E. Nygard, Krishna Kambhampaty, Maryam Alruwaythi, "Deception in Cyberspace: Performance Focused Con Resistant Trust Algorithm", the 4th Annual Conference on Computational Science & Computational Intelligence, December 2017, Las Vegas, Nevada, USA.
34. **Md Minhaz Chowdhury**, Kendall E. Nygard, "An Empirical Study on Con Resistant Trust Algorithm for Cyberspace", The 2017 World Congress in Computer Science, Computer Engineering, & Applied Computing, 2017, Las Vegas, Nevada, USA.
35. **Md Minhaz Chowdhury**, Kendall E. Nygard, "Deception in Cyberspace: An Empirical Study on a Con Man Attack", the 16th Annual IEEE International Conference on Electro Information Technology, May 2017, Lincoln, Nebraska, USA.
36. Kendall E. Nygard, **Md. Minhaz Chowdhury**, Pratap Kotala, "Trust and Purpose in Computing", The 32nd International Conference on Computers and Their Applications, March 2017, Honolulu, Hawaii, USA.
37. Md Khan, **Md Minhaz Chowdhury**, Kendall E. Nygard, "Electricity Price Forecasting in a Smart Grid", The 9th International Conference on Future Computational Technologies and Applications, February 2017, Athens, Greece.
38. Pranav Dass, Yang Lu, **Md. Minhaz Chowdhury**, Damian Lampl, Janani Kamalanathan, Kendall E. Nygard, "Gender Differences in Perceptions of Genetically Modified Foods", The 31st International Conference on Computers and Their Applications, April 2016, Las Vegas, Nevada, USA.
39. Pranav Das, **Md Minhaz Chowdhury**, Damian Lampl, Kendall E. Nygard, "Risk Perceptions for Genetically Modified Organisms: An Empirical Investigation", the Software Engineering and Applications 2015, Marina Del Rey, CA.
40. Sowjanya Param, **Md Minhaz Chowdhury**, Damian Lampl, Pranav Dass, Kendall E. Nygard, "Energy Demand Prediction Using Neural Networks", The 28th International Conference on Computer Applications in Industry and Engineering, October 2015, San Diego, California, USA.
41. Damian Lampl, **Md Minhaz Chowdhury**, Pranav Dass, Kendall E. Nygard, Vahid Khiabani, "Optimization Modelling in a Smart Grid", The 15th International Conference on Wireless Networks, 2015, Athens, Greece.
42. **Md Minhaz Chowdhury**, Jingpeng Tang, Kendall E. Nygard, "An Artificial Immune System Heuristic in a Smart Grid", the 28th International Conference on Computers and Their Applications, 2013, Honolulu, Hawaii, USA.
43. Kendall E. Nygard, Steve Bou Ghosn, **Md Minhaz Chowdhury**, Ryan McCulloch, Davin Loegering, Anand Panday, Md. Khan, Prakash Ranganathan, "Decision Support Independence in a Smart Grid", The 2nd International Conference on Smart Grids, Green Communications and IT Energy-aware Technologies, March 2012, Saint Maarten, Netherlands Antilles.

44. Kendall E. Nygard, Steve Bou Ghosn, Davin Loegering, **Md Minhaz Chowdhury**, Ryan McCulloch, Mohammad Khan, Anand Panday, Prakash Ranganathan, "Implementing a Flexible Simulation of a Self-Healing Smart Grid", The 2011 International Conference on Modelling, Simulation and Visualization Methods, July 2011, Las Vegas, USA.
45. Kendall E. Nygard, Steve Bou Ghosn, **Md Minhaz Chowdhury**, Davin Loegering, Ryan McCulloch, Prakash Ranganathan, "Optimization Models for Energy Reallocation in a Smart Grid", The IEEE Conference on Computer Communications Workshops, April 2011, Shanghai, China.

Awards

Received Vice-Chancellor's Gold Medal at Daffodil International University from the President of the People's Republic of Bangladesh in 2008.