

Tempestt Ja’Nice Neal | Curriculum Vitae

Web: Homepage, NLP Group

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1 Research Areas

user authentication, mobile and IoT-based biometrics, biometrics, mobile / ubiquitous sensing for behavior analysis, applied machine learning, stylometry, natural language processing

2 Education

Ph.D., Computer Engineering | University of Florida, Gainesville, Florida USA

M.S., Computer Science | Clemson University, Clemson, South Carolina USA

B.S., Computer Science, Minor in Mathematics | South Carolina State University, Orangeburg, South Carolina USA

3 Appointments

Aug’18-Present Tenure-Track Assistant Professor, University of South Florida

Jan’15-Aug’18 Research Assistant, University of Florida

Jan’13-Dec’14 Research Assistant, Clemson University

May’13-Dec’13 Mobile Application Developer, Clemson University

Fall’12 Teaching Assistant, Clemson University

Summer’11 Software Engineer Intern, Savannah River Remediation, LLC

Summer’10 Website and Marketing Intern, The Nature Conservancy,

Summer’09 NSF HBCU-UP Intern, South Carolina State University

4 Teaching and Advising

4.1 Teaching

F21	CAP 6101 Mobile Biometrics	No. of Students: 6	Average Rating: 5/5
F21	CAP 4103 Mobile Biometrics	No. of Students: 40	Average Rating: 4.7/5
S21	COP 3331 Object Oriented Software Design	No. of Students: 61	Average Rating: 4.4/5
F20	CAP 6101 Mobile Biometrics	No. of Students: 6	Average Rating: 5/5
F20	CAP 4103 Mobile Biometrics	No. of Students: 23	Average Rating: 4.2/5
S20	COP 3331 Object Oriented Software Design	No. of Students: 47	Average Rating: 4.6/5
F19	CIS 4930 Biometric Authentication on Mobile Devices	No. of Students: 19	Average Rating: 4.9/5
F19	CIS 6930 Biometric Authentication on Mobile Devices	No. of Students: 12	Average Rating: 4.8/5
S19	COP 3331 Object Oriented Software Design	No. of Students: 47	Average Rating: 4.7/5
F18	CIS 6930 Biometric Authentication on Mobile Devices	No. of Students: 3	Average Rating: 4.5/5
F18	CIS 4930 Biometric Authentication on Mobile Devices	No. of Students: 18	Average Rating: 4.8/5
F18	CIS 6930 Seminar in AI	No. of Students: 2	Average Rating: –
F12	Introduction to Information Technology Lab (Clemson University)	–	–

4.2 Major Advisor

7. **Parush Gera** (Ph.D., In progress), Cross-Target and Cross-Dataset Stance Detection
6. **Sayde King** (Ph.D., In progress), Multimodal Deception Detection
5. **Mohamed Ebraheem** (Ph.D., In progress), IoT-Based Biometrics
4. **Meghna Chaudhary** (Ph.D., In progress), Implicit Aspect Extraction
3. **Wilson Lozano** (Ph.D., In progress), A.I. for Monitoring Symptoms of Dementia
2. **Steven Diaz** (Ph.D., Spring 2022), On the Reliability of Wearable Sensors for Assessing Movement Disorder-Related Gait Quality and Imbalance: A Case Study of Multiple Sclerosis

1. **Khadija Zanna** (M.S., Spring 2020), Toward Culturally Relevant Emotion Detection Using Physiological Features

4.3 Supervisory Committee Member

12. GPU Accelerated Community Detection on Social Stream
Shen Lu (Ph.D., In progress), Committee Chair: Les Piegl
11. Fostering Research and Innovation in Public Transportation: A Data Driven Approach
Jennifer Adorno (Ph.D., In progress), Committee Chairs: Miguel Labrador and Sean Barbeau
10. Impact of Age on Expression Recognition
Sk Rahatul Jannat (Ph.D., In progress), Committee Chair: Shaun Canavan
9. URM Women Faculty Hiring in Engineering
Laura Owczarek (Ph.D., In progress), Committee Chair: Amber Dumford
8. Edge-AI ASICs
Md Adnan Zaman (Ph.D., 2022), Committee Chair: Robert Karam
7. Exploring the Use of Neural Transformers for Psycholinguistics
Antonio Laverghetta (M.S., 2021), Committee Chair: John Licato
6. Pain Recognition Performance on a Single Board Computer
Iyonna Tynes, (M.S., 2021), Committee Chair: Shaun Canavan
5. Adaptive Mobile EEG Noise Cancellation Using 2D Convolutional Autoencoders for BCI Authentication
Tyree Lewis (M.S., 2021), Committee Chair: Marvin Andujar
4. Using High Order Spanning Trees to Improve Dimensionality Reduction while Preserving Structure
Curtis Davis (M.S., 2021), Committee Chair: Paul Rosen
3. Algorithms to Profile Driver Behavior from Zero-Permission Embedded Sensors
Bharti Goel (Ph.D., 2020), Committee Chair: Sriram Chellappan
2. Multimodal Emotion Recognition using 3D Facial Landmarks, Action Units, and Physiological Data
Diego Fabiano (M.S., 2019), Committee Chair: Shaun Canavan
1. Detecting Digitally Forged Faces in Online Videos
Neilesh Sambhu (M.S., 2019), Committee Chair: Shaun Canavan

4.4 Research Lab Volunteers & REU Students

13. Kevin Antony, (UG, REU), 2022
12. Orestes Bringas, (UG, REU), 2022
11. Nicolas Ng Wai, (UG, REU), 2020–2022
10. Frances Castro, (UG, Lab Volunteer), 2021
9. Sue Dang, (UG, Lab Volunteer), 2021
8. Dong Jun Kim, (UG, Lab Volunteer), 2021
7. Ajay Chekuri, (MS, Lab Volunteer), 2020
6. Lakshmi Angara, (UG, Lab Volunteer), 2019–2020
5. Nadia Thomas, (UG, Lab Volunteer), 2019–2020
4. Matthew Sumpter, (UG, REU), 2019
3. Valesia Davis, (UG, REU), 2019
2. Gurpreet Kaptan, (MS, Lab Volunteer), 2018–2019
1. Vineeth Cherukupally, (MS, Lab Volunteer), 2018–2019

5 Research Funding

5.1 Principal Investigator

4. **Collaborative Research: SaTC: CORE: Medium: Toward Age-Aware Continuous Authentication on Personal Computing Devices**, National Science Foundation, 4/2021–3/2023, \$533,292.
3. **Speedlane: Social Media Micromoments**, USF College of Engineering Bulls Engineering Success Training Program, 8/2021–5/2022, \$25,000.
2. **Social Media Trend Analysis to Explore Racial Disparities in the Treatment, Perceptions, and Tracking of COVID-19**, Microsoft AI for Health, 6/2020–5/2022, \$30,000 Azure Computing Credits.
1. **Exploring Racial Disparities in the Treatment, Perceptions, and Tracking of COVID-19 through Automated Stigma Detection and Sentiment Analysis of Social Media Data**, USF COVID Rapid Response, 6/2020–5/2021, \$25,000.

5.2 Co-Principal Investigator

5. **Transforming Multimodal Travel Behavior Data from an Open-Source Platform to Support Traffic Congestion Reduction Strategies**. National Institute for Congestion Research. 4/2022 – 6/2023, \$90,000.
4. **Up To Me: Erasing the Stigma of Mental Illness on College Campuses**, National Institute on Disability, Independent Living, and Rehabilitation Research, 9/2021–8/2024, \$600,000.
3. **Game On: Grooming Black Youth for Leadership Excellence Using Video Gaming**, USF Understanding and Addressing Blackness and Anti-Black Racism in Local, National, and International Communities Research, 9/2020 – 9/2021, \$30,000.
2. **Bending the Mental Distress Curve Among COVID-19 Responders: A Pilot Feasibility Study**, USF COVID Rapid Response, 8/2020 – 8/2021, \$24,190.
1. **RAPID: Early Detection of Disease Outbreaks using Self-Organizing Patterns - COVID-19**, National Science Foundation, 5/2020–4/2022, \$200,000.

6 Publications

6.1 Refereed Conference and Workshop Papers

18. M. Ebraheem, S. King, and T. Neal. Lip Movement as a WiFi-Enabled Behavioral Biometric: A Pilot Study. To appear at the 24th International Conference on Human-Computer Interaction (HCI 2022).
17. S. R. Jannat, D. Fabiano, S. Canavan, T. Neal (2021) Subject Identification Across Large Expression Variations Using 3D Facial Landmarks. In: Del Bimbo A. et al. (eds) Pattern Recognition. ICPR International Workshops and Challenges. ICPR 2021. Lecture Notes in Computer Science, vol 12661. Springer, Cham. https://doi.org/10.1007/978-3-030-68763-2_1.
16. M. Sumpter and T. Neal. User Perceptions of Article Credibility Warnings: Towards Understanding the Influence of Journalists and AI Agents. MEDIATE 2021 in conjunction with the 15th International AAAI Conference on Web and Social Media (ICWSM).
15. Khadija Zanna, Tempestt Neal, and Shaun Canavan. 2021. Clustering of Physiological Signals by Emotional State, Race, and Sex. In Companion Publication of the 2021 International Conference on Multimodal Interaction (ICMI '21 Companion). Association for Computing Machinery, New York, NY, USA, 312–316. DOI:<https://doi.org/10.1145/3461615.3486567>.
14. B. M. S. B. Talukder, B. Ray, V. Menon, Md T. Rahman, and T. Neal. Towards the Avoidance of Counterfeit Memory: Identifying the DRAM Origin. *IEEE International Symposium on Hardware Oriented Security and Trust (HOST 2020)*.
13. S. King, M. Ebraheem, K. Zanna and T. Neal, Learning a Privacy-Preserving Global Feature Set for Mood Classification Using Smartphone Activity and Sensor Data,” in 2020 15th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2020) (FG), Buenos Aires, AR, 2020 pp. 660-664.

12. T. Neal and S. Canavan, Mood Versus Identity: Studying the Influence of Affective States on Mobile Biometrics,” in 2020 15th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2020) (FG), Buenos Aires, AR, 2020 pp. 578-582.
11. P. Gera, N. Thomas, and T. Neal. 2020. Hesitation While Posting: A Cross-Sectional Survey of Sensitive Topics and Opinion Sharing on Social Media. In International Conference on Social Media and Society (SMSociety’20). Association for Computing Machinery, New York, NY, USA, 134–140.
10. T. Neal and A. Patel, A Brief Literature Review and Survey of Adult Perceptions on Biometric Recognition for Infants and Toddlers, 2020 IEEE International Joint Conference on Biometrics (IJCB), Houston, TX, USA, 2020, pp. 1-10, doi: 10.1109/IJCB48548.2020.9304868.
9. T. Neal and D. Woodard. Mobile Biometrics, Replay Attacks, and Behavior Profiling: An Empirical Analysis of Impostor Detection. 2019 International Conference on Biometrics (ICB), Crete, Greece, 2019, pp. 1-8. doi: 10.1109/ICB45273.2019.8987407.
8. T. Neal, M. A. Noor, P. Gera, K. Zanna and G. Kaptan. Authenticating Phone Users Using a Gait-Based Histogram Approach on Mobile App Sessions. 2019 International Conference on Biometrics (ICB), Crete, Greece, 2019, pp. 1-7. doi: 10.1109/ICB45273.2019.8987418.
7. T. Neal and D. L. Woodard. A Gender-Specific Behavioral Analysis of Mobile Device Usage Data, *2018 IEEE 4th International Conference on Identity, Security, and Behavior Analysis (ISBA)*, Singapore, 2018, pp. 1-8. doi: 10.1109/ISBA.2018.8311459.
6. T. Neal, K. Sundararajan and D. Woodard. Exploiting Linguistic Style as a Cognitive Biometric for Continuous Verification. *2018 International Conference on Biometrics (ICB)*, Gold Coast, QLD, 2018, pp. 270-276. doi: 10.1109/ICB2018.2018.00048.
5. K. Sundararajan, T. Neal and D. Woodard. Style Signatures to Combat Biometric Menagerie in Stylometry. *2018 International Conference on Biometrics (ICB)*, Gold Coast, QLD, 2018, pp. 263-269. doi: 10.1109/ICB2018.2018.00047.
4. T. Neal and D. L. Woodard. (2018) On the Use of Mobile Calling Patterns for Soft Biometric Classification. *IEEE 9th International Conference on Biometrics Theory, Applications and Systems (BTAS 2018)*, Redondo Beach, CA, USA, 2018, pp. 1-6. doi: 10.1109/BTAS.2018.8698591.
3. T. Neal and D. L. Woodard. Spoofing Analysis of Mobile Device Data as Behavioral Biometric Modalities, *2017 IEEE International Joint Conference on Biometrics (IJCB)*, Denver, CO, 2017, pp. 62-70. doi: 10.1109/BTAS.2017.8272683.
2. T. Neal and D. L. Woodard. Using Associative Classification to Authenticate Mobile Device Users, *2017 IEEE International Joint Conference on Biometrics (IJCB)*, Denver, CO, 2017, pp. 71-79. doi: 10.1109/BTAS.2017.8272684.
1. T. Neal, D. Woodard and A. D. Striegel. Mobile Device Application, Bluetooth, and Wi-Fi Usage Data as Behavioral Biometric Traits, *2015 IEEE 7th International Conference on Biometrics Theory, Applications and Systems (BTAS)*, Arlington, VA, 2015, pp. 1-6. doi: 10.1109/BTAS.2015.7358777.

6.2 Refereed Journal Articles

4. King S, Lebert J, Karpisek L, Phillips A, Neal T, Kosyluk K Characterizing User Experiences With an SMS Text Messaging–Based mHealth Intervention: Mixed Methods Study. *JMIR Form Res* 2022;6(5):e35699 URL: <https://formative.jmir.org/2022/5/e35699> DOI: 10.2196/35699.
3. T. Neal and D. Woodard, You’re Not Acting Like Yourself: A Study on Soft Biometric Classification, Person Identification, and Mobile Device Use. *IEEE Transactions on Biometrics, Behavior, and Identity Science*. vol. 1, no. 2, pp. 109-122, April 2019. doi: 10.1109/TBIOM.2019.2905868.
2. T. Neal, K. Sundararajan, A. Fatima, Y. Yan, Y. Xiang, and D. Woodard. 2017. Surveying Stylometry Techniques and Applications. *ACM Computing Surveys* 50, 6, Article 86 (November 2017), 36 pages.
1. T. Neal and Woodard, D. L. (2016). Surveying Biometric Authentication for Mobile Device Security. *Journal of Pattern Recognition Research*, 1, 74-110. doi:10.13176/11.764.

6.3 Book Chapters

2. Neal T., Woodard D. (2020) Presentation Attacks in Mobile and Continuous Behavioral Biometric Systems. In: Bourlai T., Karampelas P., Patel V. (eds) *Securing Social Identity in Mobile Platforms*. Advanced Sciences and Technologies for Security Applications. Springer, Cham.
1. T. Neal, Woodard, D., and Striegel, A. Mobile device usage data as behavioral biometrics (Security, 2017), *Mobile Biometrics*, Chapter 7, pp. 177-207, DOI: 10.1049/PBSE003E ch7.

6.4 Ph.D. Thesis

A Feasibility Study of Mobile Device Usage Data for Biometric Identification and Soft Biometric Classification. Ph.D. Dissertation. 2018. University of Florida, Gainesville, FL.

6.5 Non-Reviewed Articles

14. T. Neal. Biometrics in 2021: A Review of Most Cited Research Articles and Related Applications. *IEEE Biometrics Council Newsletter* Vol 41, 2022.
13. T. Neal. Continuous Authentication with Plurilock’s DEFEND Persisted. *IEEE Biometrics Council Newsletter* Vol 40, 2021.
12. T. Neal. Biometrics in Commercial VR. *IEEE Biometrics Council Newsletter* Vol 39, 2021.
11. T. Neal. Bias in Commercial Biometric Applications. *IEEE Biometrics Council Newsletter* Vol 38, 2021.
10. T. Neal. Integrated Biometrics? Watson Mini Fingerprint Recognition Scanner to be Used for Identifying Victims of Natural Disasters. *IEEE Biometrics Council Newsletter* Vol 37, 2021.
9. Sk R. Jannat, D. Fabiano, S. Canavan, and T. Neal. Subject Identification Across Large Expression Variations Using 3D Facial Landmarks. arXiv:2005.08339. 2020.
8. T. Neal. Industry Responses to Face Masks: Periocular Recognition. *IEEE Biometrics Council Newsletter* Vol 36, 2020.
7. T. Neal. Face Recognition Beyond Face Masks. *IEEE Biometrics Council Newsletter* Vol 35, 2020.
6. T. Neal. Remote Education and Biometrics: How Online Learning Tools are Using Biometrics to Enhance Classroom Instruction and an Opportunity for Improvement. *IEEE Biometrics Council Newsletter* Vol 34, 2020.
5. T. Neal. The Role of Biometrics Amid Global Epidemics . *IEEE Biometrics Council Newsletter* Vol 33, 2020.
4. T. Neal. The Canadian Down Syndrome Society Partners with Google to Improve Voice Recognition. *IEEE Biometrics Council Newsletter* Vol 32, 2019.
3. K. Zanna, S. King, T. Neal, and S. Canavan. Studying the Impact of Mood on Identifying Smartphone Users. arXiv:1906.11960. 2019.
2. Noor, M. A., Kaptan, G., Cherukupally, V., Gera, P., and Neal, T. (2019). A Closer Look at Mobile App Usage as a Persistent Biometric: A Small Case Study. arXiv preprint arXiv:1912.11721.
1. T. Neal. IrisGuard Provides Essential Aid to Refugees Using Non-Invasive Iris Recognition. *IEEE Biometrics Council Newsletter* Vol 31, 2019.

7 Presentations

21. [Panelist] *Is CSE for Me?*, University of South Florida, 2021, 2022
20. [Invited Talk] *Towards Generalizable User Authentication Systems on Personal Devices*, Pacific Northwest National Laboratory (PNNL) Mathematics for Artificial Reasoning in Science Seminar, November 2021.
19. [Invited Talk] *Understanding Human Behavior with Personal Computing Devices – Mobile Mental Health Interventions: User Perceptions and Preliminary Results*, Duke University, April 2021.
18. [Panelist] *FSU SSS-STEM Luncheon*, University of South Florida, 2019
17. [Invited Talk] *Smartphones + X: Applications of Mobile Sensing*, Berea College, November 2019.

16. **[Invited Talk]** *Mobile Biometrics: A Continuous Look at Identity*, J.P. Morgan Chase TechFest, Tampa, FL, October 2019.
15. **[Poster]** MD A. Noor, P. Gera, K. Zanna, G. Kaptan, and T. Neal. “Using Gait Recognition Techniques on Mobile App Sessions to Continuously Recognize Smartphone Users.” 2019 Cyber Florida Research Symposium, Tampa, FL.
14. **[Poster]** T. Neal and D. L. Woodard. “Mobile Biometrics, Replay Attacks, and Behavior Profiling: An Empirical Analysis of Impostor Detection.” ICB 2019, Crete, Greece.
13. **[Poster]** T. Neal, MD A. Noor, P. Gera, K. Zanna, and G. Kaptan. “Authenticating Phone Users Using a Gait-Based Histogram Approach on Mobile App Sessions.” ICB 2019, Crete, Greece.
12. **[Panelist]** *CodeBreakHERS: Women in Cybersecurity*, University of South Florida, 2019
11. **[Panelist]** *Exploring Identities in Engineering*, University of South Florida, 2019
10. **[Panelist]** *Black Computer Scientist: Past, Present and You*, University of South Florida, 2019
9. **[Invited Course Lecture]** *An Overview of Mobile Biometrics*, University of South Florida, February 2019.
8. **[Panelist]** *Life of a Research Professor*, IEEE-HKN Student Leadership Conference, University of Florida, 2018
7. **[Invited Course Lecture]** *An Overview of Mobile Biometrics*, University of South Florida, November 2018.
6. **[Poster]** T. Neal and D. L. Woodard. “On the Use of Mobile Calling Patterns for Soft Biometric Classification.” BTAS 2018, Los Angeles, CA.
5. **[Poster]** T. J. Neal and D.L. Woodard. “Mobile Biometrics: Using Association Analysis for Mining Smartphone Usage Data.” Florida Institute for Cybersecurity Research Conference 2017, Gainesville, FL. *Best Poster Award.
4. **[Poster]** T. J. Neal and D.L. Woodard. “Mobile Biometrics: Using Association Analysis for Mining Smartphone Usage Data.” WISE Workshop at HOST 2017, McLean, VA.
3. **[Poster]** T. Neal and D. L. Woodard. “Spoofing Analysis of Mobile Device Data as Behavioral Biometric Modalities.” IJCB 2017, Denver, CO.
2. **[Poster]** T. Neal and D. L. Woodard. “Using Associative Classification to Authenticate Mobile Device Users.” IJCB 2017, Denver, CO.
1. **[Poster]** T. Neal, D. L. Woodard and A. D. Striegel. “Mobile device application, Bluetooth, and Wi-Fi usage data as behavioral biometric traits.” BTAS 2015, Arlington, VA.

8 Service

23. **[Organizer]** First Workshop on Interdisciplinary Applications of Biometrics and Identity Science (InterID 2023) at FG 2023
22. **[Program Committee]**, 44th 2023 IEEE Symposium on Security and Privacy
21. **[Outreach]** Invited Guest Speaker, CodeBreakHERS (2019, 2021, 2022)
20. **[Program Committee]**, Mediate 2022 at the 16th International AAAI Conference on Web and Social Media (ICWSM 2022)
19. **[Program Committee]**, 24th ACM International Conference on Multimodal Interaction (ICMI 2022)
18. **[Associate Editor]**, ICPR 2022 Track 4: Biometrics and Human-Computer Interaction at the 26th International Conference on Pattern Recognition (ICPR 2022)
17. **[Co-Organizer]**, Workshop on Applied Multimodal Affect Recognition (AMAR 2020 at FG 2020, AMAR2021 at ACII 2021, AMAR2022 at ICPR 2022)
16. **[Guest Editor]**, MDPI Electronics Special Issue on Recent Advances in Biometric Security in IoT Based on Machine Learning (2021 – Current)
15. **[Outreach]** Approach A.I.dentity (2022 – Current)
14. **[Outreach]** Member, Diversity & Inclusion Committee on Systemic Change in ACM (2020 – Current)

13. [**University/Department Service**] USF College of Engineering Advisors of Research Management Committee (2021 – Current)
12. [**Associate Editor**], IEEE Biometrics Council Newsletter (2019 – Current)
11. [**University/Department Service**] USF Computer Science and Engineering Dept. Broadening Participating in Computing (BPC) Committee (2018 – Current)
10. [**University/Department Service**] USF Computer Science and Engineering Dept. Graduate Affairs Committee (2018 – Current)
9. [**Co-Organizer**], Annual Nelms Workshops on Women in IoT: Leading Through Change. University of Florida Warren B. Nelms Institute for the Connected World, (WIoT 2020, WIoT 2021)
8. [**Technical Program Committee**], Responsible PR&MI (First International Workshop on Responsible Pattern Recognition and Machine Intelligence) at the 18th International Conference on Computer Vision (ICCV 2021)
7. [**Organizer**], Special Session on Identity for Social Good at the International Joint Conference on Biometrics (IJCB 2020)
6. [**IEEE WIE Society Liaison**], IEEE Biometrics Council (2019 – 2021)
5. [**Program Committee**], The Bright and Dark Sides of Computer Vision: Challenges and Opportunities for Privacy and Security at the Conference on Computer Vision and Pattern Recognition (CVPR) (CV-COPS 2019, CV-COPS 2020)
4. [**Program Committee**], Workshop on Demographic Variation in the Performance of Biometric Systems (WACV 2020)
3. [**Local Arrangements Chair**], International Conference on Biometrics: Theory, Applications, and Systems (BTAS 2019)
2. [**Session Chair**], Novel, Mobile, and Soft Biometrics at the International Conference on Biometrics (ICB 2019)
1. [**Reviewer**] National Science Foundation (2018 – 2021); IEEE Transactions on Multi-Scale Computing Systems (2018); IEEE Transactions on Biometrics, Behavior, and Identity Science (2018 – 2021); IEEE International Conference on Identity, Security, and Behavior Analysis (ISBA 2018); IAPR International Conference on Biometrics (ICB 2019); ACM Computing Surveys (2019); IEEE International Conference on Biometrics: Theory, Applications, and Systems (BTAS 2019); International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2020); IEEE/IAPR International Joint Conference on Biometrics (IJCB 2021 – 2022); ACM Transactions on Privacy and Security (2022)

9 Honors and Awards

7. McKnight Junior Faculty Fellow (2021-2022)
6. Apple Polishing Award, University of South Florida Ambassadors (2019)
5. University of Florida Delores Auzenne Dissertation Award (2018)
4. National Science Foundation CyberCorps Scholarship for Service Fellowship (2017-2018)
3. National Science Foundation Scholarship in Science, Technology, Engineering, and Mathematics (2012-2015)
2. South Carolina State University Computer Science Award (2012)
1. South Carolina State University Presidential Scholar (2008-2012)

10 Professional Memberships

- Association for Computing Machinery (ACM)
- ACM Future of the Academy
- Institute of Electrical and Electronic Engineers (IEEE)
- IEEE Women in Engineering
- IEEE Biometrics Council
- Upsilon Pi Epsilon Computing and Information Disciplines
- Kappa Mu Epsilon Mathematics Society

11 Miscellaneous

4. Press Coverage (September 28, 2021). Bary, Emily. MarketWatch. How the quirky ways you type, swipe and behave can protect you online
3. Bushra Anjum. 2020. A conversation with Tempestt Neal: continuous authentication methods for mobile platforms. Ubiquity 2020, June, Article 1 (June 2020), 5 pages. doi: 10.1145/3404394.
2. Press Coverage (May 20, 2020), USF engineers awarded NSF grant to fight COVID-19 using big data. Tampa Bay NewsWire.
1. Press Coverage (October 20, 2011), SC State University Senior Exclusive HBCU Recipient of Honor Scholarship . South Carolina State University.