Jean Marcel dos Reis Costa

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Education

2019	**Ph.D.** in Information Science, *Cornell University* *Concentration*: Human-Computer Interaction *Doctoral Minor*: Computer Science *Committee*: Tanzeem Choudhury (chair), Malte Jung, François Guimbrètiere
2017	**MS** in Information Science, *Cornell University*
2011	**MSc.** in Computer Science, *Federal University of Para*
2009	**B.Sc.** in Computer Science, *Federal University of Para*

Work Experience

2013-2019	**Research Assistant** in Department of Information Science at *Cornell University* *Worked with Dr. Tanzeem Choudhury* *Summary*: Designed, developed and evaluated mobile technologies for self-regulation that work by subtly changing the perception of body or environmental cues.
2017	**Research Intern** at *Facebook Reality Labs (Oculus Research)* *Worked with Dr. Cesare Parise and Dr. Raymond King* *Summary*: Designed and conducted experiments to study human perception in virtual reality.
2016	**Research Intern** at *Microsoft Research - VIBE group* *Worked with Dr. Mary Czerwinski* *Summary*: Designed and conducted experiments to investigate how voice self-perception affects people's behavior and emotions during social interactions.
2015	**Research Intern** at *Telefonica Research - Predictive Health group* *Worked with Dr. Aleksandar Matic and Dr. Nuria Oliver* *Summary*: Conducted analysis of call details records to investigate the relationship among mobility, communication patterns and mental health indicators.
2012-2013	**Assistant Researcher** at *Vale Institute of Technology - Health and Safety group*

Summary: Conducted interviews and designed mobile technologies to improve safety conditions in railways and mining operations.

2011 **Research Intern** at *Siemens Corporate Research - User Experience group*
Worked with Dr. Sam Zheng
Summary: Conducted a contextual inquiry with designers and developed an online collaborative tool to facilitate the modeling of user interfaces.

Awards

2018 Gaetano Borriello Outstanding Student Award - Finalist

2016 Best Paper Award (top 1%) at the International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp)

2016 EmotionCheck paper listed in the ACM Best of Computing Notable Books and Articles

2010 Best Paper Award at the Brazilian Symposium on Collaborative Systems (SBSC)

2008 Best Paper Award at the Brazilian Symposium on Collaborative Systems (SBSC), 2008

Publications

2019 J. Costa, F. Guimbretière, M. F. Jung, and T. Choudhury. Boostmeup: Improving cognitive performance in the moment by unobtrusively regulating emotions with a smartwatch. *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies*, 3(2):40, 2019

2018 J. Costa, M. F. Jung, M. Czerwinski, F. Guimbretière, T. Le, and T. Choudhury. Regulating feelings during interpersonal conflicts by changing voice self-perception. In *Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*, page 631. ACM, 2018

V. W.-S. Tseng, S. Abdullah, J. Costa, and T. Choudhury. Alertnessscanner: what do your pupils tell about your alertness. In *Proceedings of the 20th International Conference on Human-Computer Interaction with Mobile Devices and Services*, page 41. ACM, 2018

2017 J. Costa, A. T. Adams, M. F. Jung, F. Guimbretière, and T. Choudhury. Emotioncheck: A wearable device to regulate anxiety through false heart rate feedback. *GetMobile: Mobile Computing and Communications*, 21(2):22–25, 2017

2016 J. Costa, A. T. Adams, M. F. Jung, F. Guimbetière, and T. Choudhury. Emotioncheck: leveraging bodily signals and false feedback to regulate our emotions. In *Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing*, pages 758–769. ACM, 2016 ***Best Paper Award (top 1%)**

S. Muralidhar, J. M. Costa, L. S. Nguyen, and D. Gatica-Perez. Dites-moi: Wearable feedback on conversational behavior. In *Proceedings of the 15th International Conference on Mobile and Ubiquitous Multimedia*, number EPFL-CONF-223761, 2016

G. M. Sandstrom, V. W.-S. Tseng, J. Costa, F. Okeke, T. Choudhury, and E. W. Dunn. Talking less during social interactions predicts enjoyment: A mobile sensing pilot study. *PloS one*, 11(7):e0158834, 2016

2015 A. T. Adams*, J. Costa*, M. F. Jung, and T. Choudhury. Mindless computing: designing technologies to subtly influence behavior. In *Proceedings of the 2015 ACM International Joint Conference on Pervasive and Ubiquitous Computing*, pages 719–730. ACM, 2015 ***Co-first authors**

S. Abdullah, E. L. Murnane, J. M. Costa, and T. Choudhury. Collective smile: Measuring societal happiness from geolocated images. In *Proceedings of the 18th ACM Conference on Computer Supported Cooperative Work & Social Computing*, pages 361–374. ACM, 2015

J. M. d. R. Costa*, R. Rotabi*, E. L. Murnane, and T. Choudhury. It is not only about grievances: Emotional dynamics in social media during the brazilian protests. In *Ninth International AAAI Conference on Web and Social Media*, 2015 ***Co-first authors**

2011 J. M. Costa, M. Cataldo, and C. R. de Souza. The scale and evolution of coordination needs in large-scale distributed projects: implications for the future generation of collaborative tools. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, pages 3151–3160. ACM, 2011

2010 J. M. Costa, R. M. Feitosa, and C. R. De Souza. Tool support for collaborative software development based on dependency analysis. In *6th International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2010)*, 2010

J. M. dos Reis Costa and C. R. B. De Souza. Analyzing the scalability of awareness networks in a distributed software development project. In *Collaborative Systems-Simposio Brasileiro de Sistemas Colaborativos (SBSC), 2010 Brazilian Symposium of*, pages 103–110. IEEE, 2010 ***Best Paper Award**

2009 J. M. Costa, F. W. Santana, and C. R. De Souza. Understanding open source developers evolution using transflow. In *Groupware: Design, Implementation, and Use*, pages 65–78. Springer, 2009

2008 J. M. Costa, R. M. Feitosa, and C. Souza. Raisaware: Uma ferramenta de auxílio à engenharia de software colaborativa baseada em análises de dependências. In *Sistemas Colaborativos, 2008 Simpøsio Brasileiro de*, pages 254–264. IEEE, 2008 ***Best Paper Award**

Patents

2018 C. J. M. Dos Reis, A. T. Adams, T. Choudhury, and M. F. Jung. Mindless technologies to subtly influence behavior, Mar. 8 2018. US Patent App. 15/698,564

2016 C. R. B. De Souza, S. R. De Carvalho, P. W. M. e Souza Filho, N. M. de Carvalho Filho, and J. M. dos Reis Costa. System for mapping and identification of plants using digital image processing and route generation, Feb. 2 2016. US Patent 9,251,420

Teaching Experience

2015 **Teaching Assistant - INFO 4130/6130 (Health and Computation)** in Department of Information Science at *Cornell University*

2014 **Teaching Assistant - INFO 4130/6130 (Health and Computation)** in Department of Information Science at *Cornell University*

2012 **Teaching Assistant - Laboratory of Software Engineering** in Department of Computer Science at *Federal University of Para*

2010 **Teaching Assistant - Object-oriented Programming** in Department of Computer Science at *Federal University of Para*

Service

Reviewer: CHI 2019, CHI 2018, CHI 2017, CHI 2016, CHI 2015, CHI 2014, IMWUT 2018, IMWUT 2017, UbiComp 2016, UbiComp 2015, SBSC 2012, SBSC 2010

Program Committee: Mental Health: Sensing and Intervention (Ubicomp 2018 Workshop), MINDCARE 2016, MINDCARE 2015

Member: Information Science Ph.D Admissions Committee (2015)

Skills

Programming: Java, Swift, JavaScript, Python, C++, PHP, R, MATLAB

Methods: Experiment Design, Statistical Analysis, Physiological Measurement and Analysis, Surveying, Interviewing, Observation, Contextual Inquiry