

Rafael Veras

Human-Machine Interaction Lab
Huawei Technologies
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EDUCATION

- Ph.D. Computer Science, Ontario Tech University, 2019
Advised by Christopher Collins
Thesis: "Visual encoding quality and scalability in information visualization"
- M.Sc. Computer Science, Ontario Tech University, 2013
Advised by Christopher Collins and Julie Thorpe
Thesis: "An Investigation of Semantic Patterns in Passwords"
- B.S. Computer Science, Universidade Federal do Pará, 2011

PROFESSIONAL EXPERIENCE

- 2019–Present Huawei Technologies, HCI Researcher
Toronto, Canada
- 2017 Microsoft Research, Intern
Redmond, United States
- 2011–2018 Ontario Tech University, Teaching Assistant
Ontario, Canada
- 2011 Rede de Informática, Developer, Information Visualization
Belém, Brasil

RESEARCH INTERESTS

Information visualization: evaluation, perception, and theory
Human-computer interaction: mid-air interaction and ubiquitous computing

PUBLICATIONS

Conference Proceedings

- 2019 **Rafael Veras** and Christopher Collins. Discriminability tests for visualization effectiveness and scalability. *IEEE Transactions on Visualization and Computer Graphics*, 26(1):749–758, Jan 2020

- 2019 **Rafael Veras** and Christopher Collins. Saliency deficit and motion outlier detection in animated scatterplots. In *Proc. of the 2019 CHI Conference on Human Factors in Computing Systems*, CHI '19, pages 541:1–541:12, New York, NY, USA, 2019. ACM
- 2017 **Rafael Veras** and Christopher Collins. Optimizing hierarchical visualizations with the minimum description length principle. *IEEE Transactions on Visualization and Computer Graphics*, 23(1):631–640, 2017
- 2014 **Rafael Veras**, Christopher Collins, and Julie Thorpe. On semantic patterns of passwords and their security impact. In *Proc. of the Network and Distributed System Security Symposium*, 2014
- 2014 **Rafael Veras**, Erik Paluka, Meng-Wei Chang, Vivian Tsang, Fraser Shein, and Christopher Collins. Interaction for reading comprehension on mobile devices. In *Proc. of the Int. Conf. on Human-computer Interaction with Mobile Devices & Services*, MobileHCI '14, pages 157–161. ACM, 2014

Workshop

- 2016 Santiago Bonada, **Rafael Veras**, and Christopher Collins. Personalized views for immersive analytics. In *Proc. of the ACM ISS Workshop on Immersive Analytics*, pages 83–89. ACM, 2016
- 2012 **Rafael Veras**, Julie Thorpe, and Christopher Collins. Visualizing semantics in passwords: the role of dates. In *Proc. of Int. Symposium on Visualization for Cyber Security*, pages 88–95. ACM, 2012

GRANTS AND AWARDS

Awards and Honors

- 2019 W.R. Smith Thesis Award, doctoral thesis category
- 2019 ACM CHI 2019 Honourable Mention

Grants and Scholarships

- 2017 Dean Scholarship. Ontario Tech University (\$3,000)
- 2016 Dean Scholarship. Ontario Tech University (\$3,000)
- 2015 Dean Scholarship. Ontario Tech University (\$3,000)
- 2014 Dean Scholarship. Ontario Tech University (\$3,000)
- 2013 Dean Scholarship. Ontario Tech University (\$3,000)
- 2013 Science Without Borders PhD Scholarship, Government of Brazil (\$180,000 over 4 years)
- 2013 Italian Cultural Centre of Durham Scholarship (\$5,000)
- 2011 Italian Cultural Centre of Durham Scholarship (\$5,000)
- 2010 NSF Student Travel Grant. IEEE Visweek

SERVICE

Peer Review

ACM CHI, IEEE VIS, IEEE VAST, IEEE Access, International Journal of Information Security (IJIS)

Graduate Committees

2020 Rodrigo Lima, Masters Thesis — Federal University of Pará

2019 Yvan Brito, Masters Thesis — Federal University of Pará

Updated June 2020