

Andrew Toshiaki Nakayama Kurauchi

RESEARCH INTERESTS

Human-computer interaction; Eye tracking;
Assistive technology; Text entry.

⌚ | <http://cs-people.bu.edu/kurauchi/>
✉ | kurauchi@bu.edu

EDUCATION

- 2007 – 2011 **University of São Paulo**
São Paulo, SP, Brazil
B.SC. IN COMPUTER SCIENCE
- 2012 – 2018 **University of São Paulo**
São Paulo, SP, Brazil
PH.D. IN COMPUTER SCIENCE
Advisor: Prof. Carlos Morimoto
- 2014 – 2015 **Boston University**
Boston, MA, USA
VISITING PH.D. STUDENT
Advisor: Prof. Margrit Betke

AWARDS AND SCHOLARSHIPS

- 2013 – 2017 **São Paulo Research Foundation**
grant 2013/06791-0
Full Ph.D. scholarship
- 2014 – 2015 **São Paulo Research Foundation**
grant 2014/12048-0
Research internship abroad
- 2015 **NSF PETRA Conference**
Doctoral Consortium Award

SELECTED PUBLICATIONS

Velloso, E.; Coutinho, F. L.; **Kurauchi, A. T. N.**; Morimoto, C. H. “Circular Orbits Detection for Gaze Interaction Using 2D Correlation and Profile Matching Algorithms”. *Proceedings of the 2018 ACM Symposium on Eye Tracking Research & Applications, ETRA’18*. Warsaw, Poland, June 2018. – **Paper of Note Award**

Kurauchi, A. T. N.; Feng, W.; Joshi, A.; Morimoto, C. H.; Betke, M. “EyeSwipe: Dwell-free Text Entry Using Gaze Paths”. *Proceedings of the 2016 CHI Conference on Human Factors in Computing Systems, CHI’16*. Santa Clara, USA, May 2016.

Kurauchi, A. T. N.; Feng, W.; Morimoto, C. H.; Betke, M. “HMAGIC: Head Movement and Gaze Input Cascaded Pointing”. *Proceedings of the 8th ACM International Conference on Pervasive Technologies Related to Assistive Environments, PETRA’15*. Corfu, Greece, Jul. 2015.

SOFTWARE

Haytham-Linux: Head-Mounted Gaze Tracker
<https://bitbucket.org/toshikurauchi/haytham-linux/>

CameraMouseSuite: head tracker
<https://git.io/vH5kP>

PROFESSIONAL EXPERIENCE

2010 – 2012

Caelum (<http://www.caelum.com.br/>)
São Paulo, SP, Brazil
Software engineer and instructor

- Teaching object-oriented programming, and Android app development
- Java web development with VRaptor.

TEACHING EXPERIENCE

Inspere:

2017 – current **Teaching Assistant**
Data Science; Software Design; Computational Robotics; Collaborative Agile Development

University of São Paulo:

2012 – 2016 **Teaching Assistant**
Principles of Algorithm Design; Introduction to Computer Graphics; Principles of Human-Computer Interaction

Caelum (www.caelum.com.br):

2011 – 2012 **Instructor**
Object-Oriented Programming; Android App Development

VOLUNTEER EXPERIENCE

MAR. 2014 **2014 Symposium on Eye Tracking Research and Applications**
Safety Harbor, FL, USA
Student volunteer

2011 **AGENTE**
São Paulo, SP, Brazil
Math teacher in a preparatory community course for university entrance exams