

Andrew Toshiaki Nakayama Kurauchi

111 Cummington Mall, Boston, MA 02215, USA
<http://cs-people.bu.edu/kurauchi/>
kurauchi@bu.edu

- RESEARCH INTERESTS** Computer vision; Human-computer interaction; Eye tracking; Assistive technology.
- EDUCATION**
- | | |
|--|-----------------------|
| University of São Paulo , São Paulo, SP, Brazil
<i>B.Sc. in Computer Science</i> | <i>2007 - 2011</i> |
| University of São Paulo , São Paulo, SP, Brazil
<i>Ph.D. candidate in Computer Science</i> | <i>2012 - present</i> |
| Boston University , Boston, MA, USA
<i>Visiting Ph.D. student</i> | <i>2014 - present</i> |
- AWARDS**
- | | |
|---|--------------------|
| São Paulo Research Foundation, grant 2013/06791-0
<i>Full Ph.D. scholarship</i> | <i>2013 - 2016</i> |
| São Paulo Research Foundation, grant 2014/12048-0
<i>Research internship abroad</i> | <i>2014 - 2015</i> |
- PUBLICATIONS**
- Kurauchi, A. T. N.**; Tula, A. D.; Morimoto, C. H. “Facilitating Accessibility and Digital Inclusion Using Gaze-Aware Wearable Computing”. *XIII Brazilian Symposium on Human Factors in Computer Systems, IHC’14*. Foz do Iguaçu, Brazil, Oct. 2014.
- Kurauchi, A. T. N.**; Tula, A. D.; Morimoto, C. H. “Método de Calibração de Rastreadores de Olhar Móveis Utilizando 2 Planos Para Correção de Paralaxe”. *XXIV Brazilian Congress on Biomedical Engineering, CBEB’14*. Uberlândia, Brazil, p.2683-2686, Oct. 2014.
- Tula, A. D.; **Kurauchi, A. T. N.**; Morimoto, C. H.; Veitzman, S.; Ianof, J. N. “Sistema Móvel de Baixo Custo Para Rastreamento do Olhar Voltado á Identificação de Disfunções Oculomotoras”. *XXIV Brazilian Congress on Biomedical Engineering, CBEB’14*. Uberlândia, MG, Brazil, p.2830-2833, Oct. 2014.
- Kurauchi, A. T. N.**; Morimoto, C. H.; Mardanbegi, D.; Hansen, D. W. “Towards Wearable Gaze Supported Augmented Cognition”. *Proc. of the CHI 2013 Workshop on Gaze Interaction in the Post-WIMP World*, Paris, France, Apr. 2013.
- Tula, A. D.; **Kurauchi, A. T. N.**; Morimoto C. H. “Facilitating Gaze Interaction Using the Gap and Overlap Effects”. *CHI ’13 Extended Abstracts on Human Factors in Computing Systems*. Paris, France, Apr. 2013.
- ORAL PRESENTATIONS**
- Boston University (BU)**, Image and Video Computing Group, “Git for Computer Scientists”, Boston, Massachusetts, USA, February, 2015.
- Boston University (BU)**, Image and Video Computing Group, “Eye Tracking

Research at USP”, Boston, Massachusetts, USA, September, 2014.

University of São Paulo (USP), Principles of Human-Computer Interaction, “Introduction to Git”, São Paulo, São Paulo, Brazil, May, 2014.

Universidade Bandeirante de São Paulo (UNIBAN), Jornada de Tecnologia da Informação, “Introduction to Android app development”, São Paulo, São Paulo, Brazil, August, 2011.

PROJECTS

Haytham-Linux: Head-Mounted Gaze Tracker

Linux software for head-mounted gaze trackers using Qt and OpenCV.

Source code: <https://bitbucket.org/toshikurauchi/haytham-linux/>
Documentation: <http://toshikurauchi.bitbucket.org/Haytham-Linux/>

Pandora’s Box Graphics Engine

Implementation of a graphics engine in C++ with an example application on tensor field visualization.

Source code: <https://github.com/victorkendy/PandoraBox>

PROFESSIONAL EXPERIENCE **Caelum** (<http://www.caelum.com.br/>), São Paulo, SP, Brazil 2010 - 2012
Software engineer and instructor

- Teaching “Java and Object-Oriented Programming” and “Mobile Development with Google Android”.
- Java web development with VRaptor.

TEACHING EXPERIENCE *Teaching Assistant* Sep. 2012 - Dec. 2012
Principles of Algorithm Design

Teaching Assistant Mar. 2013 - Jun. 2013
Introduction to Computer Graphics

VOLUNTEER EXPERIENCE **2014 Symposium on Eye Tracking Research and Applications**, Safety Harbor, FL, USA Mar. 2012
Student volunteer.

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