

CV // Pedro Lopes

Researching and creating muscle interfaces that read and write to the human body. A hands-on philosophical investigation of **Human-Computer Integration**.



Proprioceptive Interaction, a wearable that reads and writes to human body, 2015

Scientific Publications

- 2016** **Muscle Plotter: an Interactive System based on EMS that Produces Spatial Output**
Pedro Lopes, Doğa Yüksel, and Patrick Baudisch
UIST 2016: ACM Conference on User Interface Software and Technology
- 2016** **Metamaterial Mechanisms**
[honorable mention] Alexandra Ion, Johannes Frohnhofen, Ludwig Wall, Robert Kovacs, Mirela Alistar, Jack Lindsay, Pedro Lopes, Hsiang-Ting Chen, and Patrick Baudisch
UIST 2016: ACM Conference on User Interface Software and Technology
- 2015** **Impacto: Simulating Physical Impact by Combining Tactile Stimulation with Electrical Muscle Stimulation**
Pedro Lopes, Alexandra Ion, and Patrick Baudisch
UIST 2015: ACM Conference on User Interface Software and Technology
- 2015** **Affordance++: allowing objects to communicate dynamic use**
[best paper award] Pedro Lopes, Patrik Jonell, and Patrick Baudisch
CHI 2015: ACM Conference on Human Factors in Computing Systems
- 2015** **Proprioceptive Interaction**
[best talk award] Pedro Lopes, Alex Ion, Willi Mueller, Daniel Hoffmann, Patrik Jonell and Patrick Baudisch
CHI 2015: ACM Conference on Human Factors in Computing Systems
- 2014** **Haptic Turk: a motion platform based on people**
Lung-Pan Cheng, Patrick Lühne, Pedro Lopes, Christoph Sterz, and Patrick Baudisch
CHI 2014: ACM Conference on Human Factors in Computing Systems
- 2014** **Let's Kick It: how to stop wasting the bottom third of your large screen display**
Ricardo Jota, Pedro Lopes, Daniel Wigdor and Joaquim Jorge
CHI 2014: ACM Conference on Human Factors in Computing Systems
- 2013** **Muscle-propelled force feedback: bringing force feedback to mobile devices**
Pedro Lopes and Patrick Baudisch
CHI 2013: ACM Conference on Human Factors in Computing Systems
- 2013** **Gesture Output: Eyes-Free Output Using a Force Feedback Touch Surface**
Anne Roudaut, Christoff Sterz, Andreas Rau, Max Plauth, Pedro Lopes and Patrick Baudisch
CHI 2013: ACM Conference on Human Factors in Computing Systems
- 2013** **constructable: interactive construction of functional mechanical devices**
Stefanie Mueller, Pedro Lopes, and Patrick Baudisch
SIGGRAPH 2013 (Talks) & UIST 2012

Invited Talks

- 2016 **realistic VR happens through our full body & our muscles**
“Reality Sucks” a VR symposium by HTW, Berlin, Germany.
- 2016 **You as the Interface**
Institute of Experimental Design and Media Cultures, Basel, Switzerland.
- 2015 **Interfaces that read and write to the body**
University of Tokyo, Japan.
- 2015 **Proprioceptive Interaction**
NODE'15 Conference, Frankfurt, Germany
- 2015 **Turns out that the next wearable interface is your own body!**
WearIt15, Wearables Conference, Berlin, Germany
- 2014 **Videogames through the body**
Museumsquartier, Vienna, Austria
- 2014 **Muscle-Propelled Interfaces: games through the body**
A Maze festival 14, Berlin, Germany
- 2013 **Muscle-Propelled Interfaces: tiny devices that move you!**
Akademie Solitude 2013, Stuttgart, Germany
- 2012 **Biohacking and Brain Computer Interfaces: the future**
Campus Party 2012, Berlin, Germany
- 2012 **Body & mind controlled: artists & scientists push boundaries**
Laboratory for Experimental Art and Performance, Berlin, Germany

Prizes and Mentions

- 2016 **ACM UIST Honorable Mention: Metamaterial Mechanisms**
- 2015 **VIDA16 Incentive Award**
- 2015 **ACM CHI Best Paper Award: Affordance++**
- 2015 **ACM CHI Best Talk Award#3: Proprioceptive Interaction**
- 2014-15 **ACM CHI & UIST “High Quality Reviewer Distinction”**
- 2013 **IEEE World Haptics Best Demo Nominee: Muscle Propelled**

Workshop, at Scientific Venues

- 2016 **Workshop on: “Let your body Move”**
ACM CHI 2016, San Jose, USA.
- 2015 **Workshop on: Electrical Muscle Stimulation as Haptics**
IEEE Haptics World Haptics, Chicago, USA.

Leading & Chairing

- 2017** **Program Committee Member of the UIST Conference**
at ACM UIST 2017
- 2017** **Student Design Challenge Chair of the TEI Conference**
at ACM TEI 2017
- 2016** **Student Innovation Contest Chair of the UIST Conference**
at ACM UIST 2016
- 2014-2017** **Editor of the ACM XRDS Magazine**
Digital Content Editor and Manager
- 2014** **Proceedings Chair of the UIST Conference**
at ACM UIST 2013
- 2012** **Curator and Organizer of NETAUDIO.LX Festival**
NetAudio and Creative Commons festival