

# Rohit Ashok Khot

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## Research Highlights

- RMIT Vice Chancellor's Postdoctoral fellowship 2017- 2020.
- 35 peer-reviewed publications in Tier-A ACM conferences in the field of Human Computer Interaction (HCI), including a best paper and an honorable mention award (Current citations: 199, i-index: 8, h5-index: 8)
- IBM *PhD Fellow* 2014-2015.
- Public exhibitions of the works at eight international academic events.
- Finalist for *Student Innovation Contest* at ACM UIST 2013 and *Student Research Competition* at ACM CHI 2013.
- Finalist for the *Premier's Design Awards* 2015 and *AAMLA awards* 2016.
- Featured on various press and media including a cover story on *Mashable Australia*, *ABC News 24*, *Channel 9 News*, *Herald Sun*, *Sydney Morning Herald*, *3AW*, *PSFK* and *SpringWise*.

## Education

**PhD in Media and Communication** 2016

RMIT University, Australia

Thesis: *Understanding Material Representations of Physical Activity*

Advisor: Prof. Florian Mueller, Prof. Larissa Hjorth

**Master of Science by Research in Computer Science** 2010

IIT Hyderabad, India

Thesis: *Human Computation with Perceptive Intelligence*

Advisor: Assoc. Prof. Kannan Srinathan

## Work Experience

**Vice Chancellor's Postdoctoral Fellow** Jan 2017 – Present

RMIT University, Australia

Manager: Prof. Florian Mueller

**Research Officer** Aug 2016 – Dec 2016

RMIT University, Australia

Manager: Prof. Florian Mueller

**Research Intern** Jan 2015 – July 2015

IBM Research, Australia

Manager: Dr. Jennifer C. Lai and Dr. Chris Butler

**Research Associate** Mar 2012 – Apr 2012

IIT Delhi, India

Manager: Assoc. prof. Ponnurangam Kumaraguru

**Project Engineer** Jun 2010 – Sep 2011

IIT Hyderabad, India

Manager: Assoc. prof. Venkatesh Choppella

## Journal Articles

- [3] Florian Mueller, **Rohit Ashok Khot**, Kathrin Gerling and Regan Mandryk 2016. Exertion Games. *Foundations and Trends Human-Computer Interaction*. Vol. 10: No. 1, 1-86.
- [2] Simon Stusak, Aurélien Tabard, Franziska Sauka, **Rohit Ashok Khot**, and Andreas Butz. 2014. Activity Sculptures: Exploring the Impact of Physical Visualisations on Running Activity, In *Visualisation and Computer Graphics*, IEEE, 99 (1). (Citation count: 29)
- [1] Florian Mueller, David Altimira and **Rohit Ashok Khot** 2015. Reflections on the Design of Exertion Games, *Games for Health Journal*, 4(1): 3-7. (Citation count: 2)

## Full Papers (Top-tier venues in the field of Human Computer Interaction are ACM CHI and DIS)

- [16] **Rohit Ashok Khot**, Deepti Aggarwal, Ryan Pennings, Larissa Hjorth, and Florian Mueller. 2017. EdiPulse: Investigating a Playful Approach to Self-monitoring through 3D Printed Chocolate Treats. To appear in *Proc. CHI'17*.
- [15] **Rohit Ashok Khot**, Josh Andres, Jennifer Lai, Juerg von Kaenel, and Florian Mueller 2016. Fantibles: Capturing Cricket Fan's Story in 3D. In *Proc. DIS '16*, ACM, 883-894. (Acceptance rate: 27%).
- [14] **Rohit Ashok Khot**, Jeewon Lee, Deepti Aggarwal, Larissa Hjorth and Florian Mueller 2015. TastyBeats: Designing Palatable Representations of Physical Activity. In *Proc. CHI'15*, ACM, 2933-2942. (Acceptance rate: 23%, Citation count: 11) (**Best paper honorable mention award**).
- [13] **Rohit Ashok Khot**, Jeewon Lee, Larissa Hjorth and Florian Mueller 2015. TastyBeats: Celebrating Heart Rate Data with a Drinkable Spectacle. In *Proc. TEI'15*, ACM, 229-232. (Acceptance rate: 28%, Citation count: 4)
- [12] **Rohit Ashok Khot**, Larissa Hjorth, and Florian Mueller 2014. Understanding Physical Activity through 3D Printed Material Artifacts. In *Proc. CHI'14*, ACM, 3835-3844. (Acceptance rate: 22%, Citation count: 38).
- [11] Florian Mueller, Sophie Stellmach, Saul Greenberg, Andreas Dippon, Susanne Boll, Jayden Garner, **Rohit Ashok Khot**, Amani Naseem and David Altimira 2014. Proxemics Play: understanding proxemics for designing digital play experiences, In *Proc. DIS '14*, ACM, 533-542. (Acceptance rate: 27%, Citation count: 16).
- [10] **Rohit Ashok Khot**, Larissa Hjorth and Florian Mueller 2013. SweatAtoms: Materialising Physical Activity. In *Proc. IE '13*, ACM, Article 4. (Citation count: 6).
- [09] **Rohit Ashok Khot**, Kannan Srinathan and Ponnurangam Kumaraguru 2012. WYSWYE: shoulder surfing defense for recognition based graphical passwords, In *Proc. OZCHI '12*, ACM, 2605-2614. (Citation count: 15).
- [08] Deepti Aggarwal, **Rohit Ashok Khot** and Venkatesh Choppella 2012. uPick: Crowdsourcing Based Approach to Extract Relations among Named Entities, In *Proc. India HCI'12*, 47-56. (Citation count: 1).
- [07] **Rohit Ashok Khot**, Kannan Srinathan and Ponnurangam Kumaraguru 2011. MARASIM: a novel jigsaw based authentication scheme using tagging, In *Proc. CHI '11*, ACM, 2605-2614. (Acceptance rate: 26%, Citation count: 12).
- [06] **Rohit Ashok Khot** and Kannan Srinathan 2011. NAPtune: Fine Tuning Graphical Authentication, In *Proc. India HCI'11*, ACM Press, 47-56. (**Best paper award**).
- [05] **Rohit Ashok Khot**, and Venkatesh Choppella, V. DISCOVER: Designing Interfaces and Structuring Content for Virtual Labs, In *Proc. T4E'11*, IEEE, 121-127. (Citation count: 10).
- [04] **Rohit Ashok Khot** and Kannan Srinathan 2010. GoFish: Fishing Thousand Words Worth A Picture, In *Proc. India HCI'10*, eWICS BCS, 1-10. (Citation count: 1).

- [03] Nagaraja Kaushik Gampa, **Rohit Ashok Khot** and Kannan Srinathan 2009 Let Only The Right One In: Privacy Management Scheme For Social Networks, In *Proc. ICIS'09*, Springer LNCS, 310-317 (Citation count: 2).
- [02] **Rohit Ashok Khot** and Kannan Srinathan 2009. iCAPTCHA: Image Tagging For Free, In *Proc. USID'09*, 1-6. (Citation count: 5).
- [01] **Rohit Ashok Khot**, Ravikant Poola, Kishore Kothapalli and Kannan Srinathan 2007. Self-stabilizing Routing Algorithms for Wireless Ad-Hoc Networks, In *Proc. ICDCIT'07*, Springer LNCS, 54-66. (Citation count: 2).

## Short Papers

- [16] Marketa Dolejšová, Dennis Kera, Christonio Storni, **Rohit Ashok Khot**, Ivan Jon Clement, Puneet Kishor and Inka Pavelka, I. 2017. Digital Health and Self-experimentation. To Appear in *Proc. CHI EA'17*.
- [15] Florian Mueller, Joe Marshall, **Rohit Ashok Khot**, Stina Nylander, and Jakob Tholander. 2016. Jogging at CHI. In *Proc. CHI EA'16*, ACM, 1119-1122.
- [14] **Rohit Ashok Khot**, Ryan Pennings and Florian Mueller 2015. EdiPulse: Turning Physical Activity Into Chocolates, In *Proc. CHI EA'15*, ACM, 331-334. (Citation count: 5)
- [13] Florian Mueller, Joe Marshall, **Rohit Ashok Khot**, Stina Nylander and Jakob Tholander 2015. Understanding Sports-HCI by going jogging at CHI. In *Proc. CHI EA'15*, ACM, 869-872. (Citation count: 1)
- [12] **Rohit Ashok Khot**, Ryan Pennings and Florian Mueller 2015. EdiPulse: Supporting Physical Activity with Chocolate Printed Messages, In *Proc. CHI EA'15*, ACM Press (2015), 1391-1396.
- [11] **Rohit Ashok Khot** 2014. Exploring Material Representations of Physical Activity. In *Proc. DIS Companion'14*, ACM, 177-180. (Citation count: 1)
- [10] Florian Mueller, Joe Marshall, **Rohit Ashok Khot**, Stina Nylander and Jakob Tholander 2014. Jogging with Technology: Interaction Design Supporting Sport Activities. In *Proc. CHI EA'14*, ACM, 1131-1134. (Citation count: 4)
- [09] **Rohit Ashok Khot**, Jeewon Lee, Larissa Hjorth and Florian Mueller 2014. SweatAtoms: Understanding Physical Activity through Material Artifacts. In *Proc. CHI EA'14*, ACM, 173-174. (Video showcase finalist) (Citation count: 1)
- [08] **Rohit Ashok Khot**, Jeewon Lee, Helmut Munz, Deepti Aggarwal and Florian Mueller 2014. TastyBeats: Making Mocktails with Heartbeats. In *Proc. CHI EA'14*, ACM, 467-470 (Citation count: 1).
- [07] **Rohit Ashok Khot** and Florian Mueller 2013. Sweat-Atoms: Turning Physical Exercise into Physical Objects, In *Proc. CHI EA'13*, ACM, 3075-3078. (Citation count: 5).
- [06] **Rohit Ashok Khot** 2013. Exploring the Role of Materiality in Physical Activity. In *Proc. UbiComp'13*, Doctoral school, 1-4.
- [05] **Rohit Ashok Khot** 2013. Sweat-Atoms: Crafting Physical Objects with Everyday Exercise. In *Proc. CHI EA'13*, ACM, 2701-2706 (Citation count: 5) (Finalist for ACM Student Research Competition).
- [04] Deepti Aggarwal, **Rohit Ashok Khot**, Venkatesh Choppella 2013. Power of Friends: When Friends Guess About Their Friends' Guess, In *Proc. CHI EA'13*, ACM, 907-912.
- [03] Alan Chatham, Ben Schouten, Chad Toprak, Florian Mueller, Menno Deen, Regina Bernhaupt, **Rohit Ashok Khot** and Sebastian Pijnappel 2013. Game Jam, In *Proc. CHI EA'13*, ACM, 3175-3178 (Citation count: 10).
- [02] Florian Mueller, **Rohit Ashok Khot**, Alan Chatham, Sebastian Pijnappel, Chad Toprak and Joe Marshall 2013. HCI with Sports, In *Proc. CHI EA'13*, ACM, 3301-3306 (Citation count: 7).

[01] **Rohit Ashok Khot** and Kannan Srinathan, K 2010. PhotoSense: Emergent Semantics Based Approach To Image Annotation, In *Proc. CHI EA'10*, ACM, 3301-3306.

## Selected Press

<b>Sydney Morning Herald</b> , Designers at play put toys in the hands of humans big and small.	2016
<b>Mashable Australia</b> (cover story), Scientists are making people jog for 3D-printed chocolate rewards	2015
<b>IBM Research</b> , Wickets, tweets, and a 3-D printer	2015
<b>3ders</b> , New Australian experiment rewards joggers with 3D printed chocolate treats based on exercise data	2015
<b>3AW (Radio)</b> , 3D printer rewards exercise with chocolate messages	2015
<b>Herald Sun</b> , Exercise takes on a sweet approach	2015
<b>Channel 9 News</b> , Sweet Reward	2015
<b>ABC News 24</b> , Sweet treats after a workout	2015
<b>PSFK</b> , Motivate Workouts with 3D-Printed Chocolate	2015
<b>Spring Wise</b> , 3D printed chocolate according to how much users exercise	2015
<b>Runner's World</b> , Would Chocolate Motivate You to Run	2015

## Awards and Honors

SIGCHI Sponsorship for organizing Summer School on Playful Interactions (\$12,000)	2017
Finalist for the AAMIA Awards (Digital Industry Association for Australia)	2016
Finalist for Premier's Design Awards (Good Design, Australia)	2015
Top-performer, Centre for Games Design Research, RMIT University, Australia	2015
Australian Computer Society foundational scholarship (AU\$10,000)	2014
IBM PhD fellowship (US\$20,000)	2014
Higher Degree by Research Travel grant, RMIT University (AU\$2000)	2014
Finalist, Student Innovation Contest, UIST 2013, Student Research Competition, CHI 2013 (US\$500)	2013
Graduate research scholarship (AU\$78,000)	2012

## Invited talks

- UX Australia 2016 Hosted by UX Australia
- STEADx 2015 Hosted by Queensland Spatial Survey Association (QSSA)
- IIIT Hyderabad 2016 Hosted by A/Prof. Venkatesh Choppella
- University of Melbourne 2015 Hosted by Behnaz Rostami Yeganeh
- Mixed Reality lab, University of Nottingham 2013 Hosted by Dr. Joseph Marshall

## Professional Activities

- **Affiliations:** Member of Association for Computing Machinery (ACM), Member of Special Interest group on Human Computer Interaction (SIGCHI), Member of Data Physicalization community (<http://dataphys.org>)
- **Program committee member:** ACM DIS 2017, ACM TEI 2017, ACM DIS 2016, ACM TEI 2016, ACM TEI 2015, ACM CHI WiP 2014, ACM CHI WiP 2015, ACM OzCHI 2013, ACM IE 2013.
- **Reviewer:** ACM CHI 2017, ACM DIS 2016, ACM CHI Play 2016, ACM CHI Play 2014, ACM DIS 2014, ACM AH 2014, ACM CHI 2014, ACM CHI 2013, ACM CHI 2012, ACM UIST 2012, ACM DPPI 2013, ACM OZCHI 2012, IEEE S&P 2011, ACM CHI 2011, ACM CHI 2010, ACM IUI 2012.
- **Co-organizer:** Self-experimentation workshop at ACM CHI 2017, Game Jam workshop at ACM CHI 2013, SIG meeting at ACM CHI 2013, ACM CHI 2014, ACM CHI 2015, Designing Login Interfaces for Mobiles at IndiaHCI 2012, DOCTYPE HTML5 workshop 2011.
- **Student Volunteer:** CHI 2016 Virtual AC subcommittee meeting, ACM CHI 2013.

## Mentoring

Peter Arnold (Masters Thesis)

2017

Topic: Edible interactions in virtual reality environment

## References

### Prof. Florian Mueller

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 Professor, School of Media & Comm.,  
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 Relation: Primary PhD supervisor

### Prof. Larissa Hjorth

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 School of Media & Comm.,  
 RMIT University, Australia.  
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 Relation: Secondary PhD supervisor

### Assoc. Prof. Stefan Greuter

Director, Center for Games Design Research,  
 School of Media & Comm.,  
 RMIT University, Australia.  
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 Relation: Director of the center