

Rohit Ashok Khot

RMIT Vice Chancellor's postdoctoral fellow; ARC DECRA Fellow, RMIT University, Australia

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Research Highlights

- *ARC Discovery Early Career Research Award (DECRA)* 2019-2021.
- *RMIT Vice Chancellor's postdoctoral fellowship* 2017-2020.
- *IBM PhD Fellow* 2014-2015.
- RMIT prize for Research Excellence (2017).
- SIGCHI Development Fund Grant (2017,2018).
- 45 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 (Dec 2018): 393, i-index: 11, h5-index: 12)
- Received *Australian Computer Society (ACS)'s Foundational scholarship* 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*, *IEEE Spectrum*, *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

Bachelor of Engineering (Information Technology) 2004

Jawaharlal Nehru Engineering College, Aurangabad, India

Work Experience

Vice Chancellor's postdoctoral fellow Jan 2017 – Present

RMIT University, Australia

Manager: Prof. Jules Moloney

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 papers (Complete list of publications at: Google Scholar)

- [3] Florian Mueller, **Rohit Ashok Khot**, Kathrin Gerling and Regan Mandryk (2016), Exertion Games , Foundations and Trends® Human–Computer Interaction: Vol. 10: No. 1, pp 1-86.
- [2] Florian 'Floyd' Mueller, David Altimira, and **Rohit Ashok Khot** Reflections on the Design of Exertion Games, Games for Health Journal, 2015, 4(1): 3-7 (Citation count: 3).
- [1] Simon Stusak, Aurélien Tabard, Franziska Sauka, **Rohit Ashok Khot**, and Andreas Butz. Activity Sculptures: Exploring the Impact of Physical Visualizations on Running Activity, In Visualization and Computer Graphics, IEEE, 99 (1), 2014 (Citation count: 31).

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

- [20] Ti Hoang, **Rohit Ashok Khot**, Noel Waite, N., and Florian Mueller. 2018. What Can Speculative Design Teach Us About Designing for Healthcare Services? To Appear in Proceedings of the OzCHI 2018. ACM.
- [19] Yash Dhanpal Mehta, **Rohit Ashok Khot**, Rakesh Patibanda, and Florian 'Floyd' Mueller. 2018. Arm-A-Dine: Towards Understanding the Design of Playful Embodied Eating Experiences. In Proceedings of the 2018 Annual Symposium on Computer-Human Interaction in Play (CHI PLAY '18). ACM.
- [18] Peter Arnold, **Rohit Ashok Khot**, and Florian 'Floyd' Mueller. 2018. "You Better Eat to Survive": Exploring Cooperative Eating in Virtual Reality Games. In Proceedings of the Twelfth International Conference on Tangible, Embedded, and Embodied Interaction (TEI '18). ACM, New York, NY, USA, 398-408.
- [17] **Rohit Ashok Khot**, Simon Stusak, Andres Butz, and Florian 'Floyd' Mueller. 2017. 10 Design Themes for Creating 3D Printed Physical Representations of Physical Activity Data. In Proceedings of the 16th IFIP TC.13 International Conference on Human-Computer Interaction INTERACT 2017 (Lecture Notes in Computer Science), 85–105.
- [16] **Rohit Ashok Khot**, Deepti Aggarwal, Ryan Pennings, Larissa Hjorth, and Florian 'Floyd' Mueller. 2017. EdiPulse: Investigating a Playful Approach to Self-monitoring through 3D Printed Chocolate Treats. In Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems (CHI '17). ACM, 6593-6607.
- [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: 19) (**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: 6)
- [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: 44).

- [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: 21).
- [10] **Rohit Ashok Khot**, Larissa Hjorth and Florian Mueller 2013. SweatAtoms: Materialising Physical Activity. In Proc. IE '13, ACM, Article 4. (Citation count: 7).
- [09] **Rohit Ashok Khot**, Kannan Srinathan and Ponnuram Kumaraguru 2012. WYSWYE: shoulder surfing defense for recognition based graphical passwords, In Proc. OZCHI '12, ACM, 2605-2614. (Citation count: 16).
- [08] Deepti Aggarwal, **Rohit Ashok Khot** and Venkatesh Choppella 2012. uPick: Crowdsourcing Based Approach to Extract Relations among Named Entities, In Proc. India HCP'12, 47-56. (Citation count: 1).
- [07] **Rohit Ashok Khot**, Kannan Srinathan and Ponnuram Kumaraguru 2011. MARASIM: a novel jigsaw based authentication scheme using tagging, In Proc. CHI '11, ACM, 2605-2614. (Acceptance rate: 26%, Citation count: 17).
- [06] **Rohit Ashok Khot** and Kannan Srinathan 2011. NAPTune: Fine Tuning Graphical Authentication, In Proc. India HCP'11, ACM Press, 47-56. (**Best paper award**).
- [05] **Rohit Ashok Khot**, and Venkatesh Choppella 2011. DISCOVER: Designing Interfaces and Structuring Content for Virtual Labs, In Proc. T4E'11, IEEE, 121-127. (Citation count: 11).
- [04] **Rohit Ashok Khot** and Kannan Srinathan 2010. GoFish: Fishing Thousand Words Worth A Picture, In Proc. India HCP'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. ICISS'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 (top-tier venues in the field of Human Computer Interaction are ACM CHI and DIS)

- [23] Yan Wang, Zhuying Li, Robert Jarvis, **Rohit Ashok Khot**, and Florian 'Floyd' Mueller. 2018. The Singing Carrot: Designing Playful Experiences with Food Sounds. In Proceedings of the 2018 Annual Symposium on Computer-Human Interaction in Play Companion Extended Abstracts (CHI PLAY '18 Extended Abstracts). ACM, 669-676.
- [22] Joseph La Delfa, Robert Jarvis, **Rohit Ashok Khot**, and Florian 'Floyd' Mueller. 2018. Tai Chi In The Clouds: Using Micro UAV's To Support Tai Chi Practice. In Proceedings of the 2018 Annual Symposium on Computer-Human Interaction in Play Companion Extended Abstracts (CHI PLAY '18 Extended Abstracts). ACM, 513-519.
- [21] Eshita Sri Arza, Harshitha Kurra, **Rohit Ashok Khot**, and Florian 'Floyd' Mueller. 2018. Feed the Food Monsters!: Helping Co-diners Chew their Food Better with Augmented Reality. In Proceedings of the 2018 Annual Symposium on Computer-Human Interaction in Play Companion Extended Abstracts (CHI PLAY '18). ACM, 391-397.
- [20] Florian 'Floyd' Mueller, Tuomas Kari, **Rohit Ashok Khot**, Zhuying Li, Yan Wang, Yash Mehta, and Peter Arnold. 2018. Towards Experiencing Eating as a Form of Play. In Proceedings of the 2018 Annual Symposium on Computer-Human Interaction in Play Companion Extended Abstracts (CHI PLAY '18 Extended Abstracts). ACM, 559-567.
- [19] **Rohit Ashok Khot**, Josh Andres, Hasan Shahid Ferdous, Jaz Hee-jeong Choi and Florian 'Floyd' Mueller. 2017. Eating Your Own Data: Design At The Intersection Of Quantified Self And Digital Food. To Appear in Proc. Interact'17.

- [18] **Rohit Ashok Khot**, Deborah Lupton, Marketa Dolejšová and Florian 'Floyd' Mueller. 2017. Future of Food in the Digital Realm (SIG meeting). In *Proc. CHI EA '17*, ACM, 1342-1345.
- [17] Peter Arnold. 2017. You Better Eat to Survive! Exploring Edible Interactions in a Virtual Reality Game. In *Proc. CHI EA '17*, ACM, 1342-1345. (**Student game competition winner**).
- [16] Marketa Dolejšová, Dennis Kera, Christonio Storni, **Rohit Ashok Khot**, Ivan Jon Clement, Puneet Kishor and Inka Pavelka. 2017. Digital Health and Self-experimentation. In *Proc. CHI EA '17*, ACM, 510-517.
- [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: 2).
- [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: 4).
- [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 (Citation count: 9).
- [11] **Rohit Ashok Khot** 2014. Exploring Material Representations of Physical Activity. In *Proc. DIS Companion'14*, ACM, 177-180 (Citation count: 2).
- [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: 7).
- [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: 8).
- [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

IEEE Spectrum , Feed Your Friends With Autonomous Chest-Mounted Robot Arms.	2018
Digital Trends , This weird wearable robot arm will feed you and your dinner companion.	2018
Futurism , A Wearable Robot Arm Makes You Work for Thanksgiving Leftovers.	2018
Hackster IO Feeding Your Friends with the Arm-A-Dine Robotic Arm Is Certainly an Experience (130K+ views).	2018
Design Boom , This chest-mounted robot feeds your face so you don't have to.	2018
IEEE Spectrum Mechanical Metamaterials and Other 3D Printing Tech from CHI 2017	2017
3Ders.org EdiPulse lets you monitor your workout data with 3D printed chocolate treats	2017
Adafruit EdiPulse – Eat Your Own 3D Printed Chocolate Data	2017
Sydney Morning Herald , Designers at play put toys in the hands of humans big and small.	2016
Mashable Australia (cover story), Scientists are making people jog for 3D-printed chocolate rewards	2015
IBM Research , Wickets, tweets, and a 3-D printer	2015
3ders , New Australian experiment rewards joggers with 3D printed chocolate treats based on exercise data	2015
3AW (Radio) , 3D printer rewards exercise with chocolate messages	2015
Herald Sun , Exercise takes on a sweet approach	2015
Channel 9 News , Sweet Reward	2015
ABC News 24 , Sweet treats after a workout	2015

Awards and Honors

ARC Discovery Early Career Research Fellowship (\$398,000 AUD)	2019-20221
Grant: SIGCHI sponsored Summer school on Experimental Play (\$12,00 USD)	2018
RMIT VC Postdoctoral Fellowship (\$310,479 AUD)	2017-2019
RMIT Prize for Research Excellence HDR (\$1500 AUD)	2018
ECP Capacity Development Fund for organizing FoodCHI (AU\$10,000)	2017
SIGCHI sponsorship grant for organizing Summer school on Play (US\$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

HDR Supervision

- **Yan Wang** (2018-present) PhD topic: *Understanding the design of Playful Gustasonic Experiences*
- **Ti Hoang** (2018-present) PhD topic: *Understanding Augmented Climbing Experiences*
- **Joseph De Lalfa** (2018-present) Masters topic: *Facilitating meditative movement through microunmanned aerial vehicle*
- **Eshita Arza & Harshita Kurra** (2018) Bachelor's thesis topic: *FEED THE FOOD MONSTERS!: Helping Co-diners Chew their Food better with Augmented Reality*
- **Yash Mehta** (2017-2018) Bachelor's thesis topic: *AR based Interactive Experience for modelling food effects on humans in a playful way!*
- **Peter Arnold** (2016-2017) Honor's thesis topic: *Exploring the Design of VR Games with edible interactions*

Invited talks

- Fine food Australia, 2018.
- 3D food printing conference, Asia, 2017.
- University of Newcastle, 2017, Hosted by Dr. James Juniper.
- 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>)
- Primarily affiliated to the RMIT “**Design and Creative Practice (DCP)**” Platform, while my work also bridges other ECPs in “Information and Systems (Engineering)”, “Social change” and “Urban Futures”. These Enabling Capability Platforms connect RMIT researchers across multiple disciplines to leverage research excellence and innovation capability in a way that creates value and enables RMIT’s vision of delivering significant economic, social and environmental impact; Member of RMIT’s interdisciplinary “Design for Wellbeing” and “HEALTH (Health, Education, Arts, Learning, Technologies, Humanities)” network.
- **Program committee member:** 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 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:** 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.

References

Prof. Florian Mueller

Director, Exertion Games Lab,
Professor, School of Design,
RMIT University, Australia.

florian.mueller@rmit.edu.au

Prof. Larissa Hjorth

RMIT Distinguished Professor,
School of Media & Comm.,
RMIT University, Australia.

larissa.hjorth@rmit.edu.au

Assoc. Prof. Stefan Greuter

Deakin University, Australia.

stefan.greuter@deakin.edu.au

Relation: Director of the center