

Niels van Berkel

Curriculum Vitae

Personal information

Nationality Dutch
Date of birth 7th of October, 1991
Residence Melbourne, Australia
Email contact@nielsvanberkel.com
Website www.nielsvanberkel.com



Education

PhD in Computer Science and Engineering

Thesis: Data Quality and Quantity in Mobile Self-Report Studies.
May 2015 - Present. University of Melbourne. Melbourne, Australia

MSc. in Interaction Technology

Thesis: Design of an Interactive Support System for Healthcare Consultants.
Sep 2012 - April 2015. University of Twente. Enschede, the Netherlands

BSc. in ICT & Media Design (cum laude)

Thesis: A data-driven lighting intelligence service for indoor and retail.
Sep 2008- Aug 2012, Fontys University of Applied Science. Eindhoven, the Netherlands

Work Experience

PhD candidate / Research scientist

The University of Melbourne, Interaction Design Lab
April 2017 - Present. Melbourne, Australia

Visiting researcher

Orygen, The National Centre of Excellence in Youth Mental Health
Nov 2017 - Feb 2018. Melbourne, Australia

Research scientist

University of Oulu, Centre for Ubiquitous Computing
May 2015 - April 2017. Oulu, Finland

Research intern

Microsoft Research, Advanced Technology Group
April 2016 - July 2016. Redmond, USA

Research intern

Philips Research, Smart Professional Spaces
Oct 2014 - April 2015. Eindhoven, the Netherlands

Student assistant

University of Twente, Interaction Technologies
Sept 2012 - Sept 2014. Enschede, the Netherlands

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Design intern

Philips Design, Philips Group Innovation
Feb 2012 - Aug 2012. Eindhoven, the Netherlands

Teaching

Undergraduate and Graduate courses

The University of Melbourne

2018 Tutor, Web Information Technologies (INFO30005)
2017 Tutor, Graphics and Interaction (COMP30019)
2017 Tutor, Fundamentals of Interaction Design (INFO10003)

University of Oulu

2015, 2016, 2017 Teaching Assistant, Human-Computer Interaction (521145A)
2016, 2017 Teaching Assistant, Applied Computing Project (521151A)
2017 Teaching Assistant, Mobile and Social Computing (521147S)
2016 Teaching Assistant, 3D Fabrication & Prototyping (521149S)

Pedagogical education

- Melbourne Teaching Certificate (The University of Melbourne, 2018)
- Tutor Training and Development (The University of Melbourne, 2017)
- Basics of University Pedagogy (University of Oulu, 920005J, 2016)

Awards and Recognition

- Excellence in Tutoring Award (top 5 tutors) - Department of Computing & Information Systems
The University of Melbourne (2018)
- SIGCHI Best of OzCHI Honourable Mention Award (top 5% of papers) - OzCHI (2017)
- Google PhD Travel Scholarship - Google (2017)
- Conference Travel Scholarship - Melbourne School of Engineering (2017)
- Melbourne Research Scholarship - The University of Melbourne (2017)
- Personal Research Grant - Elisa HPY Research Foundation (2017)
- Personal Research Grant - Walter Ahlström Foundation (2017)
- Nokia Scholarship - Nokia Foundation (2016)
- Microsoft - 1st place //oneweek hackaton Consumer category (2016)
- Microsoft - 2nd place //oneweek hackaton Disruptive Innovation (2016)
- UniOGS Travel Grant - University of Oulu (2016)
- Twente Student Conference on IT: Best Paper Award - Track Intelligent Interaction (2013)

Academic Service

Member of the Engineering Human Ethics Advisory Group

Jan 2018 - Present. The University of Melbourne

Seminar Coordinator

Jan 2018 - Present. The University of Melbourne, Interaction Design Lab

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Academic Officer - Computing and Information Systems Graduate Research Students
Sept 2017 - Present. The University of Melbourne

Conference Organisation

- Assistant to Technical Program Chairs - CHI 2019
- Student Volunteer Chair - UbiComp 2018
- Student Volunteer Captain - UbiComp 2017
- Student Volunteer - UbiComp 2016

Journal and Conference Reviewing

ACM ToCHI, PACM IMWUT, Elsevier IJHCS, CHI, UbiComp, MobileHCI, DIS, OzCHI, Aml, MUM

Publications

- Z. Sarsenbayeva, N. van Berkel, V. Kostakos, E. Velloso, J. Goncalves, "Effect of Distinct Ambient Noise Types on Mobile Interaction", in Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT**), vol. 1, no. 4, 2018, to appear. Presented at UbiComp, CORE A*.
- S. Klakegg, J. Goncalves, C. Luo, A. Visuri, A. Popov, N. van Berkel, Z. Sarsenbayeva, V. Kostakos, S. Hosio, S. Savage, A. Bykov, I. Meglinski, D. Ferreira, "Assisted Medication Management in Elderly Care Using Miniaturised Near-Infrared Spectroscopy", in Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT**), vol. 1, no. 4, 2018, to appear. Presented at UbiComp, CORE A*.
- N. van Berkel, S. Hosio, J. Goncalves, V. Kostakos, "Informed Diet Selection: Increasing Food Literacy through Crowdsourcing", in ACM SIGCHI Conference on Human Factors in Computing Systems 2018 Extended Abstracts (**CHI'18 EA**), International Workshop on Designing Recipes for Digital Food Futures, 1-2.
- S. Hosio, J. Karppinen, E. Takala, J. Takatalo, J. Goncalves, N. van Berkel, S. Konomi, V. Kostakos, "Crowdsourcing Treatments for Low Back Pain", in Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems 2018 (**CHI'18**), to appear. Acceptance rate: 26%, CORE A*.
- S. Hosio, J. Goncalves, N. van Berkel, S. Klakegg, S. Konomi, V. Kostakos, "Facilitating Collocated Crowdsourcing on Situated Displays", **Human-Computer Interaction**, 2017, 1-37. Impact factor: 4.667, CORE A.
- N. van Berkel, D. Ferreira and V. Kostakos, "The Experience Sampling Methods on Mobile Devices", **ACM Computing Surveys**, vol. 50, no. 6, 2017, 93:1-93:40. Impact factor: 6.748, CORE A*.

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- Z. Sarsenbayeva, N. van Berkel, C. Luo, V. Kostakos, J. Goncalves, "Challenges of Situational Impairments during Interaction with Mobile Devices", in Proceedings of the 29th Australian Conference on Human-Computer Interaction (**OzCHI'17**), 2017, 477-481. Acceptance rate: 46%, CORE Australasian, best paper award.
- N. van Berkel, J. Goncalves, S. Hosio, V. Kostakos, "Gamification of Mobile Experience Sampling Improves Data Quality and Quantity", in Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT**), vol. 1, no. 3, 2017, 107:1-107:21. Presented at UbiComp, CORE A*.
- Z. Sarsenbayeva, N. van Berkel, A. Visuri, S. Rissanen, H. Rintamaki, V. Kostakos, J. Goncalves, "Sensing Cold-Induced Situational Impairments in Mobile Interaction using Battery Temperature.", in Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT**), vol. 1, no. 3, 2017, 98:1-98:9. Presented at UbiComp, CORE A*.
- J. Goncalves, S. Hosio, N. van Berkel, F. Ahmed, V. Kostakos, "CrowdPickUp: Crowdsourcing Task Pickup in the Wild", in Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (**IMWUT**), vol. 1, no. 3, 2017, 51:1-51:22. Presented at UbiComp, CORE A*.
- S. Klakegg, N. van Berkel, A. Visuri, H. Huttunen, S. Hosio, C. Luo, J. Goncalves, D. Ferreira, "Designing a Context-Aware Assistive Infrastructure for Elderly Care", in International Joint Conference on Pervasive and Ubiquitous Computing (**UbiComp'17 Adj.**), 2017, 563-568.
- Z. Sarsenbayeva, D. Ferreira, N. van Berkel, C. Luo, M. Vaisanen, V. Kostakos, J. Goncalves, "Vision-Based Happiness Inference: A Feasibility Case-Study", in International Joint Conference on Pervasive and Ubiquitous Computing (**UbiComp'17 Adj.**), 2017, 494-499.
- A. Visuri, N. van Berkel, J. Goncalves, C. Luo, D. Ferreira, V. Kostakos, "Predicting Interruptibility for Manual Data Collection: A Cluster-Based User Model", in Conference on Human-Computer Interaction with Mobile Devices and Services (**MobileHCI'17**), 2017, Article 12. Acceptance rate: 20%, CORE B.
- A. Visuri, N. van Berkel, C. Luo, J. Goncalves, D. Ferreira, V. Kostakos, "Challenges of Quantified-Self: Encouraging Self-Reported Data Logging During Recurrent Smartphone Usage", in Proceedings of the 31st British Human Computer Interaction Conference (**British HCI'17**), 2017. CORE National.
- S. Klakegg, N. van Berkel, A. Visuri, C. Luo, J. Goncalves, S. Hosio, H. Huttunen, D. Ferreira, "Informing Caregivers Through an Assistive Tool: An Investigation of Elderly Care Metrics", in Proceedings of the 31st British Human Computer Interaction Conference (**British HCI'17**), 2017. CORE National.

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- S. Klakegg, J. Goncalves, N. van Berkel, C. Luo, S. Hosio, V. Kostakos, "Towards Commoditised Near Infrared Spectroscopy", in Proceedings of the ACM SIGCHI Conference on Designing Interactive System (**DIS'17**), 2017, 515-527. Acceptance rate: 22%, CORE B.
- A. Visuri, Z. Sarsenbayeva, N. van Berkel, J. Goncalves, R. Rawassizadeh, V. Kostakos, D. Ferreira, "Quantifying Sources and Types of Smartwatch Usage Sessions", in Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems 2017 (**CHI'17**), 3569-3581. Acceptance rate: 25%, CORE A*.
- J. Goncalves, Z. Sarsenbayeva, N. van Berkel, S. Hosio, S. Rissanen, H. Rintamaki, V. Kostakos, "Tapping Task Performance on Smartphones in Cold Temperature", **Interacting with Computers**, vol. 29, no. 3, 2017, 355-367. Impact factor: 1.410, CORE B.
- N. van Berkel, S. Kopytin, S. Hosio, J. Malmberg, H. Järvenoja, V. Kostakos, "Measuring Group Dynamics in an Elementary School Setting Using Mobile Devices", in Adjunct Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing (**UbiComp'16 Adj.**), 2016, 652-656.
- S. Hosio, J. Goncalves, N. van Berkel, S. Klakegg, "Crowdsourcing Situated & Subjective Knowledge for Decision Support", in International Joint Conference on Pervasive and Ubiquitous Computing Adjunct (**UbiComp'16 Adj.**), 2016, 1478-1483.
- N. van Berkel, C. Luo, T. Anagnostopoulos, D. Ferreira, J. Goncalves, S. Hosio, V. Kostakos, "A Systematic Assessment of Smartphone Usage Gaps", in Proceedings of the 2016 Conference on Human Factors in Computing Systems (**CHI'16**), 4711-4721. Acceptance rate: 20%, CORE A*.
- S. Hosio, D. Ferreira, J. Goncalves, N. van Berkel, C. Luo, M. Ahmed, H. Flores, V. Kostakos, "Monetary Assessment of Battery Life on Smartphones", in Proceedings of the 2016 Conference on Human Factors in Computing Systems (**CHI'16**), 1869-1880. Acceptance rate: 20%, CORE A*.
- N. van Berkel, S. Hosio, T. Durkee, V. Carli, D. Wasserman, V. Kostakos, "Providing Patient Context to Mental Health Professionals Using Mobile Applications", in ACM SIGCHI Conference on Human Factors in Computing Systems 2016 Extended Abstracts (**CHI'16 EA**), 2016, International Workshop on Computing and Mental Health, 1-4.
- G. V. Georgiev, M. Oja, I. Sanchez, M. Pyykkönen, T. Leppänen, J. Ylioja, N. van Berkel, J. Rieki, "Assessment of Relatedness to a Given Solution in 3D Fabrication and Prototyping Education", in Proceedings of the 2016 International Conference on Design Creativity (**ICDC'16**), 2016.
- N. van Berkel, C. Luo, D. Ferreira, J. Goncalves, V. Kostakos, "The Curse of Quantified-Self: An Endless Quest for Answers", in International Joint Conference on Pervasive and Ubiquitous Computing (**UbiComp'15 Adj.**), 2015, 973-978.

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- M. Lohse, N. van Berkel, E.M.A.G. van Dijk, M.P., Joosse, D.E. Karreman, V. Evers, "The Influence of Approach Speed and Functional Noise on Users' Perception of a Robot". In Proceedings of IEEE/RSJ International Conference on Intelligent Robots and Systems (**IROS'13**), 2013, 1670-1675. Acceptance rate: 43%, CORE A.