Ulrik Lyngs

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Research summary

Aims—to design, build, and evaluate design strategies that help people exercise self-control over use of smartphones and laptops.
Methods—controlled studies, user surveys, interviews, co-design workshops, web scraping, behaviour logging.

I am passionate about open and transparent research. Since 2016, I have shared materials, analysis scripts, and data for all my work, and written my papers as reproducible documents in R Markdown[1].

Education

2016 — 2020	**DPhil in Computer Science**, University of Oxford
2012 — 2013	**MSc in Cognitive and Evolutionary Anthropology**, University of Oxford
2011 — 2016	**MA in the Study of Religion & Cognitive Psychology**, Aarhus University
2007 — 2011	**BA in the Study of Religion & Psychology**, Aarhus University

Awards & honours

2020	**Winner of the 2020 Oxford Three Minute Thesis competition**[2], Mathematical, Physical and Life Sciences Division, University of Oxford
	MPLS Impact Awards[3] **Commendation Certificate for the Reducing Digital Distraction Workshop**, University of Oxford
2019	**Best Talk Award**, 2019 Oxford Computer Science Conference, University of Oxford
	Best Paper Honorable Mention Award for "Self-Control in Cyberspace…", CHI'19: ACM Conference on Human Factors in Computing Systems
2018	**Best Paper Award for "Third party tracking…"**, WebSci'18: ACM Conference on Web Science, Amsterdam
2017	**DOMUS Prize for Outstanding Research Communication**, Linacre College, University of Oxford

Grants

2020	**van Houten Fund**[4] (~£12k), The Reducing Digital Distraction (ReDD) Workshop for Oxford University students. Supervisor: M. Freed.
2019	**EPSRC Doctoral Prize**[5] (~£28k), Supporting End-User Autonomy Over Digital Device Use. Supervisor: Nigel Shadbolt. Mentor: Max Van Kleek.

2018	**Student Research Competition Grant** ($500), CHI'18: ACM Conference on Human Factors in Computing Systems
2017	**Workshop Grant, Designing for Curiosity** (€400), CHI'17: ACM Conference on Human Factors in Computing Systems
	Student Research Competition Grant ($500), CHI'17: ACM Conference on Human Factors in Computing Systems
2013	**Lienhard & Bagby Research Grant** (£1,000), Institute of Social & Cultural Anthropology, University of Oxford
2008	**Summer School Scholarship** (~€1000), University of Helsinki
	Undergraduate Travel Grant (DKK 1200), Aarhus University

Publications

Conference publications
(fully reviewed, archival)

In computer science, top-tier conferences (<30% acceptance rate) are as, or more impactful than journals, see doi.org/fgjt2h

2020	C5	**From Ancient Contemplative Practice to the App Store: Designing a Digital Container for Mindfulness** K. Lukoff, *U. Lyngs*, S. Gueorguieva, E. S. Dillman, A. Hiniker, S. A. Munson DIS'20: ACM conference on Designing Interactive Systems
	C4	**"I Just Want to Hack Myself to Not Get Distracted": Evaluating Design Interventions for Self-Control on Facebook** *U. Lyngs*, K. Lukoff, P. Slovak, W. Seymour, H. Webb, M. Jirotka, J. Zhao, M. Van Kleek, N. Shadbolt CHI'20: ACM Conference on Human Factors in Computing Systems
2019	C3	**Self-Control in Cyberspace: Applying Dual Systems Theory to a Review of Digital Self-Control Tools** *U. Lyngs*, K. Lukoff, P. Slovak, R. Binns, A. Slack, M. Inzlicht, M. Van Kleek, N. Shadbolt CHI'19: ACM Conference on Human Factors in Computing Systems 🏅 Best paper honourable mention (top 5%)
2018	C2	**Third party tracking in the mobile ecosystem** R. Binns, *U. Lyngs*, M. Van Kleek, J. Zhao, T. Libert, N. Shadbolt WebSci'18: ACM Web Science Conference 🏆 Best paper award (top 2 papers)
	C1	**"It's Reducing a Human Being to a Percentage": Perceptions of Justice in Algorithmic Decisions** R. Binns, M. Van Kleek, M. Veale, *U. Lyngs*, J. Zhao, N. Shadbolt CHI'18: ACM Conference on Human Factors in Computing Systems

Journal articles (fully reviewed, archival)

2016	J1	**Hearing in Colour: How Expectations Distort Perception of Skin Tone** *U. Lyngs*, E. Cohen, W. Hattori, M. Newson, D. Levin JEP:HPP: Journal of Experimental Psychology: Human Perception and Performance, 42 (12), 2068-2076

Extended abstracts and workshop papers

(lightly reviewed)

2020 A9 **The ReDD Workshop: A Template for Supporting People in Regaining Control Over Digital Device Use**
U. Lyngs, M. Freed, K. Lukoff, P. Slovak, M. Van Kleek
CHI'20 workshop: *Rethinking Mental Health Resources*, Workshop at the ACM Conference on Human Factors in Computing Systems

A8 **Further Exploring Communal Technology Use in Smart Homes: Social Expectations**
M. Kraemer, *U. Lyngs*, H. Webb, I. Flechais
CHI'20 EA: ACM Conference on Human Factors in Computing Systems

A7 **"What Could Possibly Go Wrong?" Logging HRI Data for Robot Accident Investigations**
K. Winkle, M. Jirotka, *U. Lyngs*, C. Macrae, H. Webb, A. Winfield
HRI'20 Companion: ACM/IEEE International Conference on Human-Robot Interaction

2019 A6 **Putting Self-Control at the Centre of Digital Wellbeing**
U. Lyngs
CHI'19 workshop: *Designing for Digital Wellbeing*, Workshop at the ACM Conference on Human Factors in Computing Systems

2018 A5 **So, Tell Me What Users Want, What They Really, Really Want!**
U. Lyngs, R. Binns, M. Van Kleek, N. Shadbolt
CHI'18 EA (alt.chi): ACM Conference on Human Factors in Computing Systems

A4 **A Cognitive Design Space for Supporting Self-Regulation of ICT Use**
U. Lyngs
CHI'18 EA: ACM Conference on Human Factors in Computing Systems

2017 A3 **'It's More Fun With My Phone': A Replication Study of Cell Phone Presence and Task Performance**
U. Lyngs
CHI'17 EA: ACM Conference on Human Factors in Computing Systems

A2 **'It's More Fun With My Phone': A Replication Study of Cell Phone Presence and Task Performance**
U. Lyngs, R. McKay
CogSci'17: 39th Annual Conference of the Cognitive Science Society

A1 **Curiosity, ICTs, and Attention Management**
U. Lyngs
CHI'17 workshop: *Designing for Curiosity: An Interdisciplinary Workshop*, ACM Conference on Human Factors in Computing Systems

Poster presentations

2018 P7 **Connected Life 2018, Oxford Internet Institute, University of Oxford**, What the Anti-Distraction Market Tells Us About Digital Technology and Self-Regulation

P6 **3rd Symposium on Computing and Mental Health, CHI'18, ACM Conference on Human Factors in Computing Systems, Montreal, Canada**, A Cognitive Design Space for Supporting Self-Regulation of ICT Use

2017	P5	**CogSci'17, 39th Annual Conference of the Cognitive Science Society, London**, "It's More Fun With My Phone": A Replication Study of Cell Phone Presence and Task Performance
	P4	**Connected Life 2017: Digital Inequalities, Oxford Internet Institute, University of Oxford**, Ulysses in Cyberspace: Evaluating the Anti-Distraction Market
	P3	**Designing for Curiosity, workshop at the CHI'17, ACM Conference on Human Factors in Computing Systems, Denver, Colorado**, Curiosity, ICTs and Attention Management: Evaluating the Emerging Anti-Distraction Market
2014	P2	**Morality: Evolutionary Origins and Cognitive Mechanisms, Central European University, Budapest**, Wild Cooperation: Studying Real-World Reciprocity Using Couchsurfing.org
2011	P1	**CogSci'11, 33rd Annual Conference of the Cognitive Science Society, Boston, MA**, Priming Effects of Religious Concepts on Moral Judgment – Between Mean Values and Variation

Talks and panels

All first-author conference publications listed above were also given as presentations at their respective conferences and are not listed again in this section.

Talks

2020	T26	**DISTRACT**6**, Copenhagen Center for Social Data Science, University of Copenhagen**, Self-Control in Cyberspace: Examining Tools of Resistance in the Battle for Online Attention
	T25	**COINACT**7**, Institute of Psychology, University of Copenhagen**, Cognitive Control in Cyberspace
	T24	**Seminars at Linacre College**8**, University of Oxford**, 'I Just Want to Hack Myself to Not Get Distracted': Do Design Interventions for Self-Control on Facebook Work?
	T23	**Oxford Centre for Hindu Studies, University of Oxford**, What Can Digital Humanities Offer Hindu Studies?, online lecture series (6 videos)9 for a general audience
	T22	**Śākta traditions project**10**, Oxford Centre for Hindu Studies, University of Oxford**, Deus ex Machina: What Can Digital Humanities Offer Hindu Studies?
	T21	**University of Washington DUB Shorts**11, 'I Just Want to Hack Myself to Not Get Distracted': Evaluating Design Interventions for Self-Control on Facebook
	T20	**Google Digital Wellbeing**12, Digital Wellbeing in Practice: Designing for Digital Self-Control
	T19	**Department of Computer Science, University of Copenhagen**, Digital Wellbeing in Practice: Examining the Effectiveness of Digital Self-Control Strategies
	T18	**Digital Ethnography Group (OxDEG)**13**, Oxford Internet Institute, University of Oxford**, Digital Wellbeing in Practice: Examining the Effectiveness of Digital Self-Control Strategies
2019	T17	**R user group Oxford**14**, St. Peter's College, University of Oxford**, Reproducible research with R Markdown, featuring paper and PhD thesis writing

	T16	**Best of CHI2019, IIT Bombay, Mumbai (videolink)**, Q&A: Self-Control in Cyberspace
	T15	**2019 Oxford Computer Science Conference**[15]**, University of Oxford**, Self-Control in Cyberspace: Applying Dual Systems Theory to a Review of Digital Self-Control Tools
	T14	**Department of Computer Science, University of Oxford**, "Owning" Your DPhil, workshop for 1st year DPhil (PhD) students
	T13	**Designing for Digital Wellbeing, workshop at the 2019 CHI Conference on Human Factors in Computing Systems, Glasgow, UK**, Putting Self-Control at the Centre of Digital Wellbeing
2018	T12	**BBC Radio Theatre, New Broadcasting House, London**, So, Tell Me What Users Want, What They Really, Really Want!, BBC conference on AI, Society, and the Media[16]
	T11	**Hackathon at CodeBase, Edinburgh, organised by the UnBias**[17] **project, University of Oxford**, Hacking the Attention Economy
	T10	**Human Centred Computing research seminar, Dept. of Computer Science, University of Oxford**, Evaluating Anti-Distraction Browser Extensions for Facebook
2017	T09	**PubhD**[18]**, science communication and pints, St Aldate's Tavern, Oxford**, How to Build Minimally-Distracting Technology
	T08	**SOCIAM: The Theory and Practice of Social Machines, Jesus College, University of Oxford**, Distraction and Self-Regulation in Social Machines
	T07	**DOMUS Research Communication Competition, Linacre College, University of Oxford**, Ulysses in Cyberspace: How Anti-Distraction Apps Can Guide Digital Design
	T06	**Oxford Computer Science Conference**[19]**, University of Oxford**, ICTs and Attention Management: Evaluating the Emerging Anti-Distraction Market
	T05	**Human Centred Computing Group, University of Oxford**, Battle of the Social Machines: Attention Management in the Information Age, workshop on research ethics: *Being Responsible in Research: Opportunities and Challenges*
	T04	**SOCIAM: The Theory and Practice of Social Machines, all-hands meeting in Brockenhurst, UK**, Attention Management in the Information Age
2015	T03	**'Religion, Cognition and Culture' research unit, Institute of Culture and Society, Aarhus University**, Religion: A Culturally Evolved Tool for Self-Control
2014	T02	**26th Annual Human Behavior and Evolution Society Conference, Natal, Brazil**, Fundamental Motivations and Risk-Taking: Loss Aversion in Context
2012	T01	**Homo Experimentalis: Experimental Approaches in The Study of Religion, Brno, Czech Republic**, Effort, Loss Aversion and Religion

Discussion panels

2019	D2	**Futures Thinking Conference**[20]**, Wolfson College, University of Oxford**, Psychology and Futurity, roundtable discussion on mental health
	D1	**2019 Oxford Computer Science Conference**[21]**, University of Oxford**, Computing Everything? The Limits of Algorithmic Learning, moderator for panel discussion with Richard Evans (Deepmind), Peter Millican, Hao Ni, and Luba Elliott

Podcasts

2020	Pod1	**University of Oxford Podcasts**22, Your Digital Life During Lockdown

Press

2018	Our paper "Third Party Tracking in the Mobile Ecosystem" [C2] covered in the Financial Times23, BBC24, The Times25, Business Insider26, and more

Teaching experience

2020	**Teaching assistant, Big Data Analytics**27, Oxford Internet Institute, University of Oxford 20 master's students. Taught the practical part of the class on analysing and visualisaing non-normally distributed data in R and RStudio
2019	**Instructor, Reproducible research with R Markdown**28, TIER Faculty Development Workshop29, St. Anne's College, University of Oxford 20 staff and faculty from research institutions across Europe. Developed and taught a 2-day master class in reproducible research
2013	**Introduction to Evolutionary Psychology**, Oxbridge International Summer School30 10 high school students. Organised and taught a 2-week course with group and individual tutorials
2010 — 2011	**Philosophy, theory of science, and university history**, Dept. for the Study of Religion, Aarhus University 20 undergraduate students. Taught a weekly supplementary seminar to the main lecture series

Service

2018 — 2020	**Steering group member**, Transparent Statistics in Human-Computer Interaction31
2016 —	**Reviewer**, ACM Transactions on Computer-Human Interaction (TOCHI)32, ACM CHI Conference33, Computer-Supported Cooperative Work and Social Computing34, International Journal of Human-Computer Studies35
2018	**Main conference organiser and General Chair**, Oxford Computer Science Conference 2018, Department of Computer Science, University of Oxford
2017 — 2018	**President of the Computer Science Graduate Society (CoGS)**, Dept. of Computer Science, University of Oxford
2016 — 2017	**DPhil representative in the Computer Science Graduate Society (CoGS)**, Dept. of Computer Science, University of Oxford
2012 — 2016	**Executive committee member in the London Evolutionary Research Network**36 **(LERN)**, London, UK
2008 — 2012	**Chairman of the Society for the Study of Religion (RvF)**37, Dept. for the Study of Religion, Aarhus University

Selected work experience

2020 — present   **Data Scientist and Digital Humanities Consultant**, Śākta Traditions[38], Oxford Centre for Hindu Studies, University of Oxford
I provide practical support and consultancy on natural language processing methods for analysis and visualisation of large text corpora, using reproducible workflows in R Markdown.

2019 — 2020   **Research Assistant**, RoboTIPS: Developing Responsible Robots for the Digital Economy[39]
Developed accident scenarios and investigation processes to inform responsible innovation in social robotics, with researchers at the Dept. of Computer Science in Oxford (lead: Prof. Marina Jirotka), and the Bristol Robotics Facility (lead: Prof. Alan Winfield).

2017 — 2019   **Web developer**, SOCIAM.org[40], Dept. of Computer Science, University of Oxford
Built sociam.org (archiving outputs of a 5.5 year EPSCR research project involving 55+ researchers, 40+ projects, and 400+ publications) from scratch in Drupal 7, assisted by two summer interns. Ongoing maintenance, feature development, and content curation.

2017 — 2019   **Bartender**, Linacre College bar, University of Oxford

2013 — 2016   **Festival Producer and Manager**, Institute of Art and Ideas, London
Generated ideas and wrote programme copy for 250+ panel debates for the internationally renowned philosophy and music festival HowTheLightGetsIn[41]; interviewed (600+) and booked (150+) speakers, including Cory Doctorow, Aubrey de Grey, and Simon Baron-Cohen; led and managed a research team of two full-time and music team of three full-time staff.

Professional development

2018   Invited participant to the Global Dialogue for Happiness, World Government Summit[42], Dubai

2017   Leading for Impact[43] fellow, 4-month leadership training programme at Saïd Business School, University of Oxford

R packages

2019   `oxforddown`[44], for writing reproducible research theses in R Markdown, formatted with a traditional University of Oxford LaTeX template

`pagedown-cv`[45], for dynamically generating a curriculum vitae from data held in a single spreadsheet into a variety of different output formats, using R Markdown and the `pagedown` package

2018 — 2020   `chi20-papers-rmarkdown`[46], `chi-proc-rmd-template`[47] and `chi-ea-template`[48], for writing reproducible submissions in R Markdown to the ACM CHI conference

Personal skills & volunteering

2017 — present   **Founding Band Member**, The Karaoke Collective[49]
Inventor, MC and drummer; the KC is a group of seasoned musicians in Oxford and London where we blend the fun of karaoke with the magic of a live band.

2017 — 2019	**Computer Science Ambassador**, Dept. of Computer Science, University of Oxford
	I gave regular talks about my group's and my personal research to 14-18 year old students from schools in the UK visiting the Computer Science Department
2013 — 2016	**Interview Coach**, Oxbridge Interviews, Oxfizz 50
	Provided interview training for 30+ teenagers from families not traditionally going to university wishing to apply to Oxford or Cambridge.

Links

1. https://rmarkdown.rstudio.com↩

2. https://www.ox.ac.uk/students/three-minute-thesis-competition↩

3. https://www.mpls.ox.ac.uk/news/mpls-impact-awards-2020-winners-announced-at-winter-reception↩

4. https://governance.admin.ox.ac.uk/van-houten-fund↩

5. https://epsrc.ukri.org/skills/students/dta/doctoralprize/↩

6. https://sodas.ku.dk/projects/distract/↩

7. https://psychology.ku.dk/coinact/↩

8. https://www.linacre.ox.ac.uk/event-type/linacre-seminar↩

9. https://www.youtube.com/playlist?list=PLkIUogDmN_nAEqQphmDffOMBP5ljN-jXA↩

10. http://saktatraditions.org↩

11. https://dub.washington.edu/seminar.html↩

12. https://wellbeing.google↩

13. https://www.oii.ox.ac.uk/research/projects/oxdeg/↩

14. https://twitter.com/rusersoxford↩

15. https://oxfordcsc.com↩

16. https://www.bbc.co.uk/academy/en/events/evt20180704115336827↩

17. https://unbias.wp.horizon.ac.uk/↩

18. http://pubhd.org↩

19. https://oxfordcsc.com↩

20. https://www.torch.ox.ac.uk/event/futures-thinking-conference-details↩

21. https://oxfordcsc.com↩

22. https://podcasts.ox.ac.uk/your-digital-life-during-lockdown↩

23. https://ig.ft.com/mobile-app-data-trackers/↩

24. https://www.bbc.co.uk/news/technology-45952466↩

25. https://www.thetimes.co.uk/article/personal-data-harvesting-by-mobile-phone-apps-is-out-of-control-pb2m2kwkj↵

26. https://www.businessinsider.com/google-and-facebook-big-data-apps-oxford-study-finds-2018-10?r=UK&IR=T↵

27. https://www.oii.ox.ac.uk/study/courses/big-data-analytics/↵

28. https://ulyngs.github.io/rmarkdown-workshop-2019/↵

29. https://www.projecttier.org/fellowships-and-workshops/faculty-development-workshops/↵

30. https://oxfizz.org/↵

31. https://transparentstatistics.org↵

32. http://tochi.acm.org/↵

33. https://sigchi.org/↵

34. http://cscw.acm.org/2019/↵

35. https://www.journals.elsevier.com/international-journal-of-human-computer-studies↵

36. https://londonevolution.org↵

37. https://studerende.au.dk/studier/fagportaler/arts/religionsvidenskabelig-forening/↵

38. http://saktatraditions.org/people/↵

39. https://www.cs.ox.ac.uk/projects/RoboTIPS/index.html↵

40. https://www.sociam.org↵

41. https://howthelightgetsin.org/↵

42. https://www.worldgovernmentsummit.org↵

43. https://www.sbs.ox.ac.uk/research/skoll-centre-social-entrepreneurship/social-impact-education/leading-impact↵

44. https://github.com/ulyngs/oxforddown↵

45. https://github.com/ulyngs/pagedown-cv↵

46. https://github.com/ulyngs/chi20-papers-rmarkdown↵

47. https://github.com/ulyngs/chi-proc-rmd-template↵

48. https://github.com/ulyngs/chi-ea-rmd-template↵

49. https://karaokecollective.com↵

50. https://oxfizz.org/↵