

Professor. Patrick Olivier
Computer Human Interaction & Creativity
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Biography

Patrick is an expert in human-computer interaction with particular research interests include the application of social and ubiquitous computing, the development of new approaches to interaction (including as novel sensing platforms and interaction techniques) and human-centred design methods.

Patrick coined the term Digital Civics, now a central focus of his research. Digital Civics is a cross-disciplinary area of research that explores ways technology can promote new forms of participation in the design and delivery of local services including education, public health and social care and town planning. For example, the App Movement Platform is a new kind of technology commissioning service that allows anyone to campaign for, design, and automatically generate location-based review systems for topics of concern to them.

Another key element of Patrick's work is a commitment to the creation of open source software and hardware. Notable examples include the OpenMovement AX3 accelerometer which was designed for the largest study of physical activity ever conducted (over 100K participants) and is used by clinical researchers across the World. Another is Intake24, an online 24-hour dietary recall system which was developed for Food Standards Scotland. Initially aimed at a UK population, Intake24 now has Danish, Portuguese, New Zealand and Arabic versions, and is used in the Scottish Health Survey. Before joining Monash in December 2018, Patrick was Professor of Human-Computer Interaction in the School of Computing, Newcastle University, United Kingdom where founded and lead Open Lab, Newcastle University's centre for cross-disciplinary research in digital technologies. He was director of the Engineering and Physical Sciences Research Council (EPSRC) Centre for Doctoral Training in Digital Civics (55 cross-disciplinary PhD students) and the EPSRC Digital Economy Research Centre a multidisciplinary five-year project involving 25 postdoctoral researchers.

Qualifications

Language Engineering, PhD, University of Manchester
MSc, Artificial Intelligence, University of Wales
Computing, Postgraduate Diploma, University of Bradford
Natural Sciences (Physics), BA, University of Cambridge

Employment

Professor

Computer Human Interaction & Creativity
MONASH UNIVERSITY
3 Dec 2018 → present

Research outputs

Corrigendum to "Recommender system based on pairwise association rules" (Expert Systems With Applications (2019) 115 (535–542)

Osadchiy, T., Poliakov, I., Olivier, P., Rowland, M. & Foster, E., 30 Nov 2019, In : Expert Systems with Applications. 135, p. 410 1 p.

Validity and reliability of an online self-report 24-h dietary recall method (Intake24): a doubly labelled water study and repeated-measures analysis

Foster, E., Lee, C., Imamura, F., Hollidge, S. E., Westgate, K. L., Venables, M. C., Poliakov, I., Rowland, M. K., Osadchiy, T., Bradley, J. C., Simpson, E. L., Adamson, A. J., Olivier, P., Wareham, N., Forouhi, N. G. & Brage, S., 30 Aug 2019, In : Journal of Nutritional Science. 8, e29, 9 p.

Infrastructuring public service transformation: creating collaborative spaces between communities and institutions through HCI research

Crivellaro, C., Anderson, R., Lambton-Howard, D., Nappey, T., Olivier, P., Vlachokyriakos, V., Wilson, A. & Wright, P., Jun 2019, In : ACM Transactions on Computer-Human Interaction. 26, 3, 29 p., 15.

Behavioural intervention for weight loss maintenance versus standard weight advice in adults with obesity: a randomised controlled trial in the UK (NULevel Trial)

Sniehotta, F. F., Evans, E. H., Sainsbury, K., Adamson, A., Batterham, A., Becker, F., Brown, H., Dombrowski, S. U., Jackson, D., Howell, D., Ladha, K., McColl, E., Olivier, P., Rothman, A. J., Steel, A., Vale, L., Vieira, R., White, M., Wright, P. & Araújo-Soares, V., 7 May 2019, In : PLoS Medicine. 16, 5, 18 p.

Usability testing of MySkinSelfie: a mobile phone application for skin self-monitoring

Hampton, P., Richardson, D., Brown, S., Goodhead, C., Montague, K. & Olivier, P., 25 Apr 2019, In : Clinical and Experimental Dermatology. 6 p.

Estimating energy expenditure from wrist and thigh accelerometry in free-living adults: a doubly labelled water study

White, T., Westgate, K., Hollidge, S., Venables, M., Olivier, P., Wareham, N. & Brage, S., 2 Apr 2019, (Accepted/In press) In : International Journal of Obesity. 10 p.

Feasibility of parent communication training with remote coaching using smartphone apps

Stockwell, K., Alabdulqader, E., Jackson, D., Basu, A., Olivier, P. & Pennington, L., Mar 2019, In : International Journal of Language and Communication Disorders. 54, 2, p. 265-280 16 p.

Exploring e-mentoring: co-designing & un-platforming

Alhadlaq, A., Kharrufa, A. & Olivier, P., 8 Jan 2019, (Accepted/In press) In : Behaviour and Information Technology. 21 p.

Recommender system based on pairwise association rules

Osadchiy, T., Poliakov, I., Olivier, P., Rowland, M. & Foster, E., Jan 2019, In : Expert Systems with Applications. 115, p. 535-542 8 p.

Developing technology to enhance learning interpersonal skills in counsellor education

Murphy, D., Slovak, P., Thieme, A., Jackson, D., Olivier, P. & Fitzpatrick, G., 2019, (Accepted/In press) In : British Journal of Guidance & Counselling. 14 p.

Gabber: supporting voice in participatory qualitative practices

Rainey, J., Montague, K., Briggs, P., Anderson, R., Nappey, T. & Olivier, P., 2019, *CHI 2019 - Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems: May 4–9, 2019 Glasgow, Scotland UK*. Cox, A. & Kostakos, V. (eds.). New York NY USA: Association for Computing Machinery (ACM), 12 p. 377

Mapping the margins: navigating the ecologies of domestic violence service provision

Bellini, R., Strohmayer, A., Olivier, P. & Crivellaro, C., 2019, *CHI 2019 - Proceedings of the 2019 CHI Conference on Human Factors in Computing Systems: May 4–9, 2019 Glasgow, Scotland UK*. Cox, A. & Kostakos, V. (eds.). New York NY USA: Association for Computing Machinery (ACM), 13 p. 122

Showboater: insight into sustainable rural community display networks from a longitudinal study

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Validation of a recommender system for prompting omitted foods in online dietary assessment surveys

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Whatfutures: designing large-scale engagements on WhatsApp

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Field testing of the use of Intake24—an online 24-hour dietary recall system

Rowland, M. K., Adamson, A. J., Poliakov, I., Bradley, J., Simpson, E., Olivier, P. & Foster, E., 6 Nov 2018, In : *Nutrients*. 10, 11, 12 p.

Development and feasibility of a wearable infant wrist band for the objective measurement of physical activity using accelerometry

Prioreschi, A., Nappey, T., Westgate, K., Olivier, P., Brage, S. & Micklesfield, L. K., 1 Mar 2018, In : *Pilot and Feasibility Studies*. 4, 1, 8 p., 60.

A unified model for user identification on multi-touch surfaces: a survey and meta-analysis

Kharrufa, A., Ploetz, T. & Olivier, P., 6 Jan 2018, In : *ACM Transactions on Computer-Human Interaction*. 24, 6, 39 p., 39.

Mortality as framed by ongoingness in digital design

Wallace, J., Thomas, J., Anderson, D. & Olivier, P., 3 Jan 2018, In : *Design Issues*. 34, 1, p. 95-107 13 p.

"That really pushes my buttons": designing bullying and harassment training for the workplace

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Infrastructuring the solidarity economy: unpacking strategies and tactics in designing social innovation

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Media of things: supporting the production of metadata rich media through IoT sensing

Wilkinson, G., Bartindale, T., Nappey, T., Evans, M., Wright, P. & Olivier, P., 2018, *CHI 2018 - Engage with CHI : CHI 2018 - Proceedings of the 2018 CHI Conference on Human Factors in Computing Systems*. Cox, A. & Perry, M. (eds.). New York NY USA: Association for Computing Machinery (ACM), 13 p. 206

Respectful disconnection: understanding long distance family relationships in a South Korean context

Hwang, E., Kirkham, R., Monk, A. & Olivier, P., 2018, *DIS 2018 - Proceedings of the 2018 Designing Interactive Systems Conference: June 9–13, 2018 Hong Kong*. Cerratto-Pargman, T., Chow, K. & Odom, W. (eds.). New York NY USA: Association for Computing Machinery (ACM), p. 733-745 13 p.

Simple nudges for better password creation

Nicholson, J., Vlachokyriakos, V., Coventry, L., Briggs, P. & Olivier, P., 2018, *Proceedings of the 32nd International BCS Human Computer Interaction Conference (HCI 2018): Belfast, UK, 4 - 6 July 2018*. Bond, R., Mulvenna, M., Wallace, J. & Black, M. (eds.). UK: BCS Learning and Development Limited, 12 p.

ThermoKiosk: investigating roles for digital surveys of thermal experience in workplace comfort management

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Citizen Tagger: exploring social tagging of conversational audio

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Systematic and iterative development of a smartphone app to promote sun-protection among holidaymakers: design of a prototype and results of usability and acceptability testing

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Iterative development of an online dietary recall tool: INTAKE24

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Large scale population assessment of physical activity using wrist worn accelerometers: the UK biobank study

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Our year with the glass: expectations, letdowns and ethical dilemmas of technology trials with vulnerable people

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"I'd want to burn the data or at least nobble the numbers": towards data-mediated building management for comfort and energy use

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Sangoshthi: empowering community health workers through peer learning in rural India

Yadav, D., Singh, P., Montague, K., Kumar, V., Sood, D., Balaam, M., Sharma, D., Duggal, M., Bartindale, T., Varghese, D. & Olivier, P., 2017, *WWW'17 - Proceedings of the 26th International Conference on World Wide Web: May 3–7, 2017 Perth, Australia*. Agichtein, E. & Gabrilovich, E. (eds.). Geneva Switzerland: International World Wide Web Conferences Steering Committee, p. 499-508 10 p. 3052624

Care and connect: exploring dementia-friendliness through an online community commissioning platform

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Cinehacking Cape Town - embracing informality in pursuit of high quality media

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CrowdEyes: crowdsourcing for robust real-world mobile eye tracking

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Exploring public places as infrastructures for civic m-learning

Richardson, D., Crivellaro, C., Kharrufa, A., Montague, K. & Olivier, P., 2017, *C&T 2017 - 8th International Conference on Communities and Technologies - Troyes University of Technology, Troyes, France: Conference Proceedings 26-30 June 2017 Troyes, France*. Mulder, I. & Schuler, D. (eds.). New York NY USA: Association for Computing Machinery (ACM), 10 p.

Group spinner: recognizing & visualizing learning in the classroom for reflection, communication & planning

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HCI, solidarity movements and the solidarity economy

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Implications of synchronous IVR radio on Syrian refugee health and community dynamics

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Interioractive: smart materials in the hands of designers and architects for designing interactive interiors

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Prototyping ubiquitous imaging surfaces

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Self harmony: rethinking hackathons to design and critique digital technologies for those affected by self-harm

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Towards calm displays: matching ambient illumination in bedrooms

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Challenges for designing new technology for health and wellbeing in a complex mental healthcare context

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Expressy: using a wrist-worn inertial measurement unit to add expressiveness to touch-based interactions

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ResViz: politics and design issues in visualizing academic metrics

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Speeching: mobile crowdsourced speech assessment to support self-monitoring and management for people with Parkinson's

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Syrian refugees and digital health in Lebanon: opportunities for improving antenatal health

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The NULevel trial of a scalable, technology-assisted weight loss maintenance intervention for obese adults after clinically significant weight loss: study protocol for a randomised controlled trial

Evans, E. H., Araújo-Soares, V., Adamson, A., Batterham, A. M., Brown, H., Campbell, M., Dombrowski, S. U., Guest, A., Jackson, D., Kwasnicka, D., Ladha, K., McColl, E., Olivier, P., Rothman, A. J., Sainsbury, K., Steel, A. J., Steen, I. N., Vale, L., White, M., Wright, P. & 1 others Sniehotta, F. F., 22 Sep 2015, In : *Trials*. 16, 1, 17 p., 421.

Build me a Ubicomp: bespoke ubiquitous accessibility in live television production environments

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An age-old problem: examining the discourses of ageing in HCI and strategies for future research

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