

Stephen Snow - CV

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Executive Summary

I am a professional academic in the field of User Centred Design / Human Computer Interaction (HCI) with industry and academic experience in the fields of Social Science and Sustainability. As a teacher, I lead Southampton's undergraduate HCI module: Interaction Design. As a researcher, I have explored social interactions, user experience and cognitive performance in the contexts of indoor air quality, household energy consumption, family finances and mobility among the elderly; presenting this work in internationally recognised conferences and journals. This practical experience is underpinned by a strong theoretical understanding of the relation between people, context and technology, developed over the course of my PhD in HCI and re-enforced by means of my work teaching in Australia and module leadership in England.

Career Highlights

- Shortlisted £50,000 grant from GetAMoveOn Network (Principle Investigator)
- Over 20 peer-reviewed publications accepted and published in the last five years in venues such as CHI, Participatory Design, Int. J. of HCI, Personal and Ubiquitous Computing
- Promotion to module leadership of COMP2213 Interaction Design after only two years lecturing at the University of Southampton
- Papers Chair of CHI Case Studies, managing 30+ reviewers, collating and meta-reviewing 70+ submissions and curation of the Case Studies program for CHI 2017.
- Line management of a team of two Research Assistants I recruited from the Dept. of Psychology
- Supporting ambitious undergraduate students to re-work and publish assignments, resulting in four co-authored peer-reviewed publications with undergraduate students
- 200+ home energy audits conducted as part of the Australian Government Green Loans Program

Publications

Refer Appendix (below) for full list of publications and impact factors for each.

Current Employment

Employer University of Southampton

Role September 2017 – present, **Teaching Fellow** (incl. continuation of previous research)

September 2015 – September 2017, **Research Fellow**

Research Investigation of the social context of indoor air quality in naturally ventilated office buildings; contextual enquiry: 46 qualitative interviews on the subject of practices around ventilation practices in the office, design of ambient technology for increased air quality awareness.

Development and conduct of a protocol for determining the effect of variations of carbon dioxide (CO₂) on drowsiness and cognitive performance using electroencephalogram (EEG)- two protocols (1) non-counterbalanced study design, detection of drowsiness using EEG- 47 participants (2) counterbalanced study design, detection of drowsiness and cognitive performance decrements- 31 participants.

Responsible for hiring and line management of two data analysts (Psychology PhD candidates for quantitative data analysis).

Development of papers for peer reviewed academic venues.

Teaching Module lead: COMP2213 Interaction Design.

- 181 students

- Teacher evaluation 4.2 out of 5

Lecturer: COMP1205 Professional Development,
 - 234 students
 - Teacher Evaluation 4.1 out of 5
 COMP1208 Business Information Systems,
 - 12 students
 - Teacher evaluation 4.3 out of 5
 COMP2211, Software Engineering Group Project
 - 179 students
 - Teacher evaluation 4.0 out of 5

Supervision

Supervision of Part III electronic engineering project students (COMP3200), 2017, 2018
 Supervision of Group Design Project (ELEC6200), 2017, 2018
 Supervision of personal tutees conflict resolution and pastoral care

Grants

(a) *Wyeth, P (P.I) Sitbon, L., Drew, S., Zhang, J., Snow, S. (Awarded 2015) "Framing authentic assessment of service learning within an information technology curriculum. [Australian] Office of Learning and Teaching (\$40,000)- A collaboration with colleagues at QUT, procuring funding for the development of QUT's Service Learning delivery in Computer Science modules.*
 (b) *Marsh, R., Britto, M., Stein, S., Snow, S., Costigan, G. (Awarded 2017) "The Atlantic Hurricane Season 2017: Context, Impacts and Long-term Recovery". Southampton Marine and Maritime Institute (SMMI) (£8,800)- Secured seed funding to investigate the potential role of technology in building community resilience in communities affected by the 2017 hurricane season.*
 (c) *GetAMoveOn (SHORTLISTED) I have applied as PI for £50,000 funding from the GetAMoveOn Network¹ to investigate the potential role of indoor air quality awareness (through situated feedback) as an alternative motivator for workday exercise. This grant is a further collaboration between Computer Science and Psychology, involving one of my research assistants and has Uho (www.uhoair.com) as a project partner.*

Previous Employment

(Academic)

Employer Queensland University of Technology

Role July 2014 – July 2015, **Associate Lecturer**

Research Contextual enquiry and participatory design for the social and collaboration issues around managing family finances: Literature review, methodology development, participant sampling and conduct of 28 qualitative interviews (including a sketching exercise) with Brisbane residents, investigation into the socio-political practices of food aid distribution in Brisbane. Observational data, interviews with clients of CommuniFY- a community based organisation offering food aid to those in need. A subsequent workshop involving 18 CommuniFY clients including those living with low income and low housing security.

Co-authorship of a successful teaching grant from (Australian Government) Office of Learning and Teaching

Teaching Head tutor: CAB210 (People, Context and Technology) Semester 2, 2014 Teacher evaluation score: N/A

Tutor: CAB310 (Interaction and Experience Design) Semester 1, 2015 (Teacher evaluation score: 4.25)

Tutor: DEB701 (Design and Research), Semester 1, 2014 (Teacher evaluation score: 4.1)

- Conducting 2-3 two hour tutorials per week with classes of 15-30 students
- Assisting in course coordination and acting as head tutor- organising the marking process, moderation meetings, allocating workload amongst tutors and supervising new tutors
- Research and preparation of tutorial slides (CAB210), assisting tutors and students with difficulties with assessment and dispute resolution, marking written and oral assessment assessments including the organisation of grades

Employer Queensland University of Technology

¹ <https://getamoveon.ac.uk/funding-calls/feasibility-funding-call-1>
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Role	July 2011 – July 2014, PhD
Research	<p>Understanding the social context of energy consumption information in the home. Using participatory design and qualitative research methods to expand the scope of energy use feedback in the home beyond behaviour change towards user empowerment. Understanding how the sharing of energy consumption information may facilitate energy literacy. The methodology so far has included two groups of qualitative interviews with households (n=23 and n=35), one workshop and one participant-led self-authored video exercise (n=12)</p> <ul style="list-style-type: none"> - Final seminar 16 July 2014, PhD awarded May 2015 - Total of 6 peer reviewed publications resultant from PhD
Teaching	<p>Tutor: DEB701 (Design and research), Semester 1, 2011, 2012, 2013 (Head Tutor) and 2014</p> <ul style="list-style-type: none"> - Conducting 2-3 two hour tutorials per week with classes of 15-30 students - Assisting in course coordination (DEB701 2013)- organising the marking process, moderation meetings and allocating workload amongst tutors, assisting tutors and students with difficulties with assessment and dispute resolution - Marking written, oral and video assessment assessments including the organisation of grades
Employer	Queensland University of Technology
Role	March 2010 – Feb 2012, Research Assistant Community Liveability Project
Responsibilities	<p>This research used a mixed method GPS and qualitative interview approach to determine the barriers to mobility for older Australians. Distance travelled for services, social interaction and community participation were determined through GPS and discussed in comprehensive qualitative interviews with both social and physical barriers to mobility identified.</p> <p>GIS work including building networks and mapping using ArcGIS, Advanced Google Earth, converting GPS datasets to GIS.</p> <ul style="list-style-type: none"> - Formulating interview questions based on GPS findings, advanced Microsoft Excel data analysis and graphing, graphic and map creation using Adobe Photoshop, ArcGIS - Second author publication

Previous Employment

(Private Practice)

Employer	Brisbane Energy Audits / UV Power
Role	August 2009 – March 2011, Home Sustainability Assessor and Client Liaison Manager
Home Sustainability Assessor	<p>Conducting Home Sustainability Assessments throughout Brisbane under the “Green Loans” Scheme (Commonwealth Government). This involved a comprehensive interview and energy assessment of all the sources of electricity consumption in the home, climatic design and build aspects, before advising householders on ways they could save energy.</p> <ul style="list-style-type: none"> - Over 200 interviews/assessments completed - Co-conducting Level 1 and Level 2 (Australia) commercial energy audits of commercial premises
Client Liaison Manager	<p>Sales and project management of household PV Solar systems</p> <ul style="list-style-type: none"> - Sales and client liaison including after sales service - Management and coordination of tradesmen and clients
Employer	Aurecon (previously trading as Connell Wagner)
Role	January 2008 - May 2009, Environmental Consultant
Responsibilities	<p>Water Quality and Early works Monitoring Programs for Caboolture to Beerburum (CAB), Beerwah Level Crossing (BCL) Upgrade and Traverston Dam; Beerburum to Landsborough Railway Upgrade Project (Trackstar Alliance)</p> <ul style="list-style-type: none"> - Field work and preparation of detailed existing environment reports for creeks and drainage lines throughout the alignment in preparation for subsequent Riverine Protection Permits

Qualifications	<p>2015 PhD awarded: The social context of household energy consumption, <i>Queensland University of Technology</i></p> <p>2009 Certified Home Sustainability Assessor, <i>Association of Building Sustainability Assessors</i></p> <p>2004 – 2007 Bachelor of Environmental Management (Sustainable Development) with Honours 2A, <i>University of Queensland</i></p> <p>2003 Certificate I in Engineering (Pre Vocational), <i>Southern Queensland Institute of Technology</i></p>
Professional Training & Development	<p>2017 Digital Economy Crucible- Early Career Academic Development Course http://cherish-de.uk/crucible/, <i>University of Swansea</i></p> <p>2010 ABSA certified Lighting and Windows Training, <i>Home Sustainability Assessors</i></p>
Membership	<p>Association for Computing Machinery (ACM) member</p> <p>2016 – 2017 International Society of Indoor Air and Climate member</p> <p>Association of Building Sustainability Assessors (ABSA)</p>
Awards & Recognition	<p>2012 – 2014 Australian Postgraduate Award Scholarship for PhD</p> <p>2004, 2005, 2006 Deans Commendation Award for High Academic Achievement (Undergraduate), <i>Queensland University of Technology</i></p>
Academic Service	<p>Chair: Case Studies, CHI 2017, https://chi2017.acm.org/cases.html</p> <p>- 70 papers received, management of 30+ reviewers, curated conference program for Case Studies</p>
Reviewing	<p>CHI 2018 (2 long papers), OzCHI 2017 (2 long papers), CHI 2016 (3 long papers), CHI Play 2016 (1 long paper), NordiCHI 2016 (1 long paper), OzCHI 2015 (2 long papers)</p>
Academic referees	<p>Prof m.c. schraefel, Professor, Human Computer Interaction, University of Southampton Email: mc@ecs.soton.ac.uk Ph: +44 (0)2380 598 372</p> <p>Prof Margot Brereton, Professor, Computer Human Interaction, Queensland University of Technology Email: m.brereton@qut.edu.au Ph: +61 7 3138 8365</p>
Private Practice referee	<p>Ian Gittus, Director, UV Power / Brisbane Energy Audits Email: ian@uvpower.com.au Ph: +61 4 2661 2370</p>

Appendix: Publications

Submitted and under consideration

Snow, S., McKenzie, S., Oakley, M. & schraefel, m.c. (Submitted 2018). Designing for engagement with natural ventilation in offices. Submitted to ACM Computer Human Interaction.

Journal

* Accepted subject to revisions: **Snow, S.,** Boyson, A., Felipe-King, M., Malik, O., Coutts, L., Noakes, C.J., Gough, H, Barlow, J. & schraefel, m.c. (Submitted 2018). Characterising the effect of carbon dioxide concentration on drowsiness using EEG in an office environment. *Indoor Air*. (Impact Factor: 4.38)

(1) **Snow, S.,** Wilde, A., Denny, P., schraefel. (In Press) A discursive question: Supporting student-authored multiple-choice questions through peer-learning software in non-STEMM disciplines. *British Journal of Educational Technology*. (Impact Factor: 2.71)

(2) **Snow, S.,** Vyas, D., & Brereton, M. (2017). Sharing, saving, living well on less: Redefining the “low income” tag. *International Journal of Human–Computer Interaction*, 33(5), 345-356. (Impact Factor 1.26)

(3) **Snow, S.,** Vyas, D. & Brereton, M. (2015) When an eco-feedback system joins the family. *Personal and Ubiquitous Computing*, 19 (5), 929-940 (Impact Factor 2.34)

(4) Auffenberg, F., **Snow, S.,** Stein, S., & Rogers, A. (2018). A comfort-based approach to smart heating and air conditioning. *ACM Transactions on Intelligent Systems and Technology (TIST)*, 9(3), 28. (Impact Factor 3.19)

(5) Buys, L., **Snow, S.,** van Megan, K. & Miller, E. (2012). Transportation behaviours of older adults: An investigation into car dependency in urban Australia. *Australasian Journal on Ageing*, Volume 31(3), pp. 181-186. (Impact Factor 1.08)

(6) Perring, A., Pham, K., **Snow, S.** & Buys, L. (2014) An investigation into the effect of infrastructure on fly-in fly-out mining workers. *Australian Journal of Rural Health*, Volume 22, pp.323-327 (Impact Factor 1.06)

(7) McKenzie, S., McMahon, Verlaat, I., **Snow, S.,** & Buys, L. (2015) Collecting in an urban context: relationships between collections and space in the home. *Australasian Journal of Popular Culture*, Volume 4 (1), pp.15-28

Conference

(8) **Snow, S.,** Auffenberg, F., schraefel, m.c., (2017) Log it while it's hot: designing human interaction with smart thermostats for shared work environments. Full paper in: CHI 2017, Denver, US, May 2017, (pp. 1595-1606). ACM.

(9) **Snow, S.,** Vyas, D., Lyle, P., Mallett, M., Brereton, M. (2016) Building connections: Technology design for living on a low income. *Participatory Design Conference 2016*, Aarhus, Denmark.

(10) **Snow, S.,** Soska, A., Chatterjee, S., and schraefel, m.c., (2016) Keep calm and carry on: The social determinants of indoor environment quality. *CHI Extended Abstracts, CHI 2016*, San Jose, US, 07-12 May 2016.

(11) **Snow, S.,** Gough, H., Chatterjee, S., Soska, A., and schraefel, m.c. (2016) Exploring the influence of social factors on indoor environment quality. *Indoor Air Conference 2016*, Brussels, Belgium- 3-8th July 2016.

(12) **Snow, S.,** Rittenbruch, M. and Brereton, M., 2015. Prototyping the Self-Authored Video Interview: Challenges and Opportunities. In *Human-Computer Interaction–INTERACT 2015* (pp. 150-158). Springer International Publishing.

(13) **Snow, S.,** & Vyas, D. (2015). Fostering collaboration in the management of family finances. In *Proceedings of the Annual Meeting of the Australian Special Interest Group for Computer Human Interaction* (pp. 380-387). ACM.

- (14) **Snow, S.**, & Vyas, D. (2015) Fixing the alignment: An exploration of budgeting practices in the home. In Proceedings of: CHI Extended Abstracts, CHI 2015, 18th-23rd April, Seoul, Korea.
- (15) **Snow, S.**, McMahon, B., McKenzie, S., Radke, K., Verlaet, I. and Buys, L. (2015) Designing for Collections: Building Histories, Sharing the Spectacle. In Proceedings of OzCHI 2015, Melbourne, Aus.
- (16) **Snow, S.**, Radke, K., Vyas, D. & Brereton, M. (2014) Privacy in the new era of visible and sharable energy use information. Proceedings of OzCHI 2014, 3-5th December 2014, Sydney, Aus.
- (17) **Snow, S.**, Buys, L., Roe, P. & Brereton, M. (2013) Curiosity to cupboard: self-reported disengagement with energy use feedback over time. Proceedings of: OZCHI 2013; 25 - 29 November 2013, Adelaide, Aus.
- (18) **Snow, S.** & Brereton, M. (2013) Towards engaged consumption: new sources of inspiration for eco-feedback design. INTERACT 2013, Cape Town, South Africa. Lecture Notes in Computer Science, 8120, pp. 117-124.
- (19) **Snow, S.** & Brereton, M. (2012). Beyond demand management: The value of sharing electricity information. Proceedings of: BCS HCI 2012 People & Computers XXVI, Birmingham, UK, pp. 392-397.
- (20) Vyas, D., **Snow, S.**, Roe, P., and Brereton, M. (2016) Social Organization of Household Finance: Understanding Artful Financial Systems in the Home. In Proceedings of the 19th ACM Conference on Computer-Supported Cooperative Work & Social Computing (CSCW '16).
- (21) Redhead, F., **Snow, S.**, Vyas, D., Borden, O., Russell, R., Perez, T., Brereton, M. (2015) Bringing the farmer perspective to agricultural robots. In Proceedings of CHI Extended Abstracts. CHI 2015, 18th-23rd April, Seoul, Korea.
- (22) Vyas, D., **Snow, S.**, and Mallett, M. (2015) More than just Food: Field Visits to an Emergency Relief Centre. In Proceedings of OzCHI '15, Melbourne, Aus, pp.662-666.
- (23) Thomas, D., **Snow, S.**, schraefel, m.c., Mistry, B. (2018) Indoor Air Quality Monitoring (IAQ): A low-cost alternative to CO₂ monitoring in comparison to an industry standard device. SAI Computing Conference 2018, London, United Kingdom. 10 - 12 Jul 2018
- (24) Vasilchenko, A., Wilde, A., **Snow, S.**, Balaam, M., Devlin, M. (2018). Video Coursework: Opportunity and Challenge for HCI Education. In: International Conference on Advanced Visual Interfaces (ACM), May 29th, Grosseto, Italy.
- (25) Capel, T., Schnittert, J., **Snow, S.**, Vyas, D. (2015) Exploring motivations of young adults to participate in sports. In Proceedings of: CHI Extended Abstracts. CHI 2015, 18th-23rd April, Seoul, Korea.
- (26) Biswas, D., Bono, V., Scott-South, M., Chatterjee, S., Soska, A., **Snow, S.**, Noakes, C., Barlow, J. F., Maharatna, K. and schraefel, m.c. (2016) Analysing wireless EEG based functional connectivity measures with respect to change in environmental factors. In, The IEEE International Conference on Biomedical and Health Informatics (BHI2016), Las Vegas, US, 25 - 27 Feb 2016. IEEE, 1-4.

Workshop

Snow, S., Jenkins, A., schraefel m.c. (Accepted 2018). Unlocking performance right now through better air quality and human movement. To be held at UbiComp2018:
<http://ubicomp.org/ubicomp2018/program/workshops.html> (Workshop #12)