
Curriculum Vitae
Kamilla Rún Jóhannsdóttir Ph.D.
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Education:

- Ph.D. Cognitive Science, Carleton University, Ottawa, Canada, 2004
Concentration: Applied cognitive psychology, cognitive research and philosophy of mind
Dissertation: Situation awareness and working memory: an integration of an applied concept with a fundamental cognitive process
- B.A. Psychology, University of Iceland, Reykjavik, Iceland, 1996

Positions

- Dean of the Psychology Department, October 2021-present, Reykjavik University, Reykjavik, Iceland
- Director of the BSc Psychology Program, 2014-present, Reykjavik University, Reykjavík, Iceland
- Associate Professor, 2019-present, Psychology Department, Reykjavik University, Reykjavik, Iceland
- Assistant Professor, 2011-2019, Psychology Department, Reykjavik University, Reykjavik, Iceland
- Assistant Professor, 2004-2017, School of Humanities and Social Sciences, University of Akureyri, Iceland
- Lecturer 2009-2011, Psychology Department, Reykjavík University, Reykjavík, Iceland
- Visiting Research Scientist 2007-2010, The Advanced Cognitive Engineering Lab, Carleton University, Ottawa, Canada
- Research consultant 1999-2003, Canadian Marconi Company (development of search and rescue helicopter cockpits)
- Sessional Lecturer, Fall 2000, Carleton University, Ottawa, Canada
- Teaching Assistant, 1996-2002, Carleton University, Ottawa, Canada

Grants received:

- 2021 Horizon 2020 EU grant** (2021-2025). SLEEP REVOLUTION – Revolution of sleep diagnostics and personalized health care based on digital diagnostics and therapeutics with health data integration (no. 965417). Task leader – cognitive function assessment (€ 15 389 965)
The Icelandic Research Fund
A reliable real-time fatigue risk management framework in ATC (PI, 44.000.000 ISK)
- 2020 RU Research Fund**
Assessment of cognitive workload by understanding the heart's neurophysiology (PI, 5.340.000 ISK)
- 2019 Technology Development Fund: Vöxtur**
Cities that Sustain us 3 (Co-proposer, 50.000.000 ISK)
- 2017 Isavia Research Fund**
Cognitive Workload Monitoring for Air Traffic Controllers (PI, 2.500.000 ISK)
Icelandair Group Research Fund
Cognitive Workload Monitoring for Air Traffic Controllers (PI, 2.400.000 ISK)
Technology Development Fund: Applied Research
Cities that Sustain Us 2: Creating Virtual Futures (co-proposer, 45.000.000 ISK)
Student Innovation Fund
Individual differences in working memory capacity: exploring underlying physiological factors (PI, 1.398.000 ISK)
Student Innovation Fund
Learning efficiency improved with interactive educational software and biophysical measurements (co-proposer, 2.796.000 ISK)

- 2016 Isavia Research Fund**
Cognitive Workload Monitoring for Air Traffic Controllers (PI, 2.200.000 ISK)
- Icelandair Group Research Fund**
Cognitive Workload Monitoring for Air Traffic Controllers (PI, 2.250.000 ISK)
- Student Innovation Fund**
Virtual reality as a training tool for special education teachers (co-proposer, 1.398.000 ISK)
- 2014 The Icelandic Research Fund**
Cities that Sustain Us: Using Virtual Reality to Test the Restorative Potential of Future Urban Environments (co-proposer, 30.000.000 ISK)
- Student Innovation Fund**
Diagnosing emotional state in speech using biological markers (PI, 1.398.000 ISK)
- 2013 The Icelandic Research Fund**
Monitoring Cognitive Workload in ATC using speech analysis (PI, 17.370.000 ISK)
- The Icelandic Research Fund**
Effects of Dietary Caffeine Amongst Icelandic Youth (co-proposer, 19.962.000 ISK)
- Technology Development Fund**
Biobehavioural Studies of Stress (Co-proposer, 6.532.000 ISK)
- 2005-7 The KEA, University Research Grant**
Gender and age differences in multi-task environments (PI, 1.000.000 ISK)
The effect of cell phone conversation on drivers' attention PI; 500.000 ISK)

Awards:

- CRESTech Student Poster Award (\$1000CND), *Framework for Evaluating Human Performance in an Aerospace Environment Theme*, 2003
- Carleton University Doctoral Scholarship (1996-2002)
- Ottawa Center for Research and Innovation: Futures Award, *The Student Researcher of the Year*. Awarded on March 29th, 2000.

Chapters in books

- Jóhannsdóttir, K. R. and Samsonovich, A. V. (2011). Biologically Inspired Cognitive Architectures: One More Step Forward. In Alexei V. Samsonovich and Kamilla R. Jóhannsdóttir (Eds.) *Biologically Inspired Cognitive Architectures: Proceedings of the Second Annual Meeting of the BICA Society. Frontiers in Artificial Intelligence and Applications, vol 233*. IOS Press.
- Jóhannsdóttir, K. R. (2009). The conscious computer: What are the minimal requirements for building such system? (In Icelandic). In *Veit efnið af andanum?* S. Atlason & P. Helgadóttir (Eds.). Reykjavík, Heimspækistofnun.

Edited volumes

- Pirrone, R., Sorbello, R., & Jóhannsdóttir, K. R. (2013). *Biologically Inspired Cognitive Architectures 2012: Proceedings of the Third Annual Meeting of the BICA Society* (Vol. 196). Springer.
- Samsonovich, A. V., & Jóhannsdóttir, K. R. (2011). *Biologically Inspired Cognitive Architectures 2011. Proceedings of Second Annual Meeting of the BICA Society. –Amsterdam et al.:* IOS Press.
- Samsonovich, A. V., Jóhannsdóttir, K. R., Chella, A., & Goertzel, B. (Eds.). (2010). *Biologically Inspired Cognitive Architectures 2010: Proceedings of the First Annual Meeting of the BICA Society* (Vol. 268). IOS Press.

Refereed publications

- Sveinsdóttir, S. Þ., Kristínardóttir, S. M., Kristófersson, P., Kristjánsson, S. H., & Jóhannsdóttir, K. R. (Submitted). Comparison of various physiological markers in differentiating levels of cognitive workload and stress. *Applied Ergonomics*.
- Sveinsdóttir, S. Þ., Kristínardóttir, S. M., Kristófersson, P., & Jóhannsdóttir, K. R. (Submitted). Cardiovascular activity and mental health for high and low trait mindfulness individuals. *Health Psychology*.
- Magnúsdóttir, B. B., Gylfason, H. F., & Jóhannsdóttir, K. R. (Submitted). Blunted cardiovascular reactivity predicts worse performance on working memory tasks. *International Journal in Psychophysiology*.

- Johannsdottir, K. R., Dimitri, F., Magnúsdottir, E. H., & Guðnason, J. (Submitted). Positive affect and cardiovascular reactivity and recovery from cognitive tasks. *International Journal of Psychophysiology*.
- Sveinsdottir, S. Þ., & Johannsdottir, K. R. (Under review). Differences in Heart Rate Variability for high and low trait positive affect. *Psychophysiology*.
- Magnúsdottir, E. H., Johannsdottir, K. R., Majumdar, A., & Guðnason, J. (2022). Assessing Cognitive Workload Using Cardiovascular Measures and Voice. *Sensors*, 22(18), 6894.
- Arnardottir, E.S., Islind, A.S., Óskarsdóttir, M., Ólafsdóttir, K.A., August, E., Jónasdóttir, L., Hrubos-Strøm, H., Saavedra, J.M., Grote, L., Hedner, J., Höskuldsson, S., Ágústsson, J.S., Jóhannsdóttir, K.R., McNicholas, W.T., Pevernagie, D., Sund, S., Töyräs, J., & Leppänen, T. (2022). The Sleep Revolution project: the concept and objectives. *Journal of Sleep Research*, 1-8. <https://doi.org/10.1111/jsr.13678>
- Johannsdottir, K. R., Rafnsdottir, H. B., Oddsson, A. H., & Gylfason, H. F. (2021). The Impact of Emotion and Sex on Fabrication and False Memory Formation. *International journal of environmental research and public health*, 18(22), 12185.
- Jóhannsdóttir, K. R., Ferretti, D., Árnadóttir, B. S., & Jónsdóttir, M. K. (2021). Objective Measures of Cognitive Performance in Sleep Disorder Research. *Sleep Medicine Clinics*, 16(4), 575-593.
- Sigurvinsdottir, R., Soring, K., Kristinsdottir, K., Halfdanarson, S. G., Johannsdottir, K. R., Vilhjalmsón, H. H., & Valdimarsdottir, H. B. (2021). Social Anxiety, Fear of Negative Evaluation, and Distress in a Virtual Reality Environment. *Behaviour Change*, 38(2), 109-118.
- Kristjánisdóttir, H., Jóhannsdóttir, K. R., Pic, M., & Saavedra, J. M. (2019). Psychological characteristics in women football players: Skills, mental toughness, and anxiety. *Scandinavian Journal of Psychology*, 60(6), 609-615.
- Hoffman-Peterson, A., Johannsdottir, K. R., Ladd, M Rini, C., Peshkin, B., Graves, K., Schwartz, M. D. & Valdimarsdottir, H. B (2019). Does emotional expression mediate or moderate the impact of intrusive thoughts on knowledge gained after genetic counseling? Abstract submitted to the Society of Behavioral Medicine Washington DC.
- James, J. E., Baldursdottir, B., Johannsdottir, K. R., Valdimarsdottir, H. B., & Sigfusdottir, I. D. (2018). Adolescent habitual caffeine consumption and hemodynamic reactivity during rest, psychosocial stress, and recovery. *Journal of psychosomatic research*, 110, 16-23.
- Johannsdottir, K. R., Magnúsdottir, E. H., Sigurjonsdottir, S., & Guðnason, J. (2018). The role of working memory capacity in cardiovascular monitoring of cognitive workload. *Biological Psychology*, 132, 154-163.
- Lindal, P. J., Johannsdottir, K. R., Kristjánsson, U., Lensing, N., Stühmeier, A., Wohlan, A., & Vilhjalmsón, H. H. (2018, September). Comparison of Teleportation and Fixed Track Driving in VR. In *2018 10th International Conference on Virtual Worlds and Games for Serious Applications (VS-Games)* (pp. 1-7). IEEE.
- Magnúsdottir, E. H., Johannsdottir, K. R., Bean, C., Ólafsson, B., & Guðnason, J. (2017, September). Cognitive workload classification using cardiovascular measures and dynamic features. In *2017 8th IEEE International Conference on Cognitive Infocommunications (CogInfoCom)* (pp. 000351-000356). IEEE.
- Magnúsdottir, E. H., Borsky, M., Meier, M., Johannsdottir, K., & Guðnason, J. (2017). Monitoring Cognitive Workload Using Vocal Tract and Voice Source Features. *Periodica Polytechnica. Electrical Engineering and Computer Science*, 61(4), 297.
- Meier, M., Borsky, M., Magnúsdottir, E. H., Johannsdottir, K. R., & Guðnason, J. (2016, October). Vocal tract and voice source features for monitoring cognitive workload. In *Cognitive Infocommunications (CogInfoCom), 2016 7th IEEE International Conference on* (pp. 000097-000102). IEEE.
- Lindal, P.J., Miri, H., Johannsdottir, K. R., Hartig, T. & Vilhjalmsón, H. (2016). Testing the Restorative Potential of Future Urban Environments Using VR Technology - The Cities that Sustain Us Project. In *the Proceedings of the 24th Annual Conference of the International Association for People-Environment Studies (IAPS24)*, Lund/Ålnarp, Sweden.
- Lindal, P. J., Miri, H., Johannsdottir, K. R., Hartig, T., Vilhjalmsón, H. (2015, August). *Cities That Sustain Us: Using Virtual Reality to Test the Restorative Potential of Future Urban Environments*. In Proceedings of the 11th Biennial Conference on Environmental Psychology, Groningen, The Netherlands.
- Werff, L. V. D., Guðnason, J., & Jóhannsdóttir, K. R. (2015). Detection of Cardiovascular Reactivity in Speech. In *Sixteenth Annual Conference of the International Speech Communication Association*.
- Rafnsdottir, H. B., Oddsson, A. H., and Johannsdottir, K. R. (2013). Are false memories more likely to be created by emotional compared to neutral dynamic stimuli? *The Icelandic Journal of Psychology*, 18, 7.

- Olafsdóttir, I., and Johannsdóttir, K. R. The impact of warning and stress on memory and false recall. *The Icelandic Journal of Psychology*, 17, 55-58.
- Johannsdóttir, K. R. & Herdman, C. M. (2010). The role of working memory in supporting drivers' Situation Awareness for surrounding traffic. *Human Factors*, 52, 663-673.
- Cafaro, A., Vilhjálmsón, H., Bickmore, T., Heylen, D., Jóhannsdóttir K., and Valgarðsson. G. (2012). First impressions: users' judgments of virtual agents' personality and interpersonal attitude in first encounters. In *Intelligent Virtual Agents* (pp. 67-80). 2012. Springer Berlin Heidelberg.
- Vargas Martin, M., Johannsdóttir, K., Reynaga, G. B., Tashiro, J. & Garcia-Ruiz. M. A. (2010) Unconscious mind: Authenticating with something you don't know? Or just an infallible liveness test? In the *Proceedings of IEEE Canadian Conference on Electrical and Computer Engineering*. Calgary, Canada.
- Johannsdóttir, K. R., Freysdóttir, E. S., & Aradóttir, G. (2008). The impact of cell-phone and radio use on skills and attentional processes of experienced and inexperienced drivers (in Icelandic). In Gunnar Þór Jóhannesson (Ed.), *Rannsóknir í Félagsvísindum IX*. Reykjavík: Háskólaútgáfan.
- Herdman, C. M. & Johannsdóttir, K. R. (2006). Working memory and driver situation awareness in automobiles: The role of spatial and phonological subsystems. In *Proceedings of the 16th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science*. Saskatoon, Canada.
- Jarmasz, J., Herdman, C. M., & Johannsdóttir, K. (2005). Object-based attention and cognitive tunnelling. *Journal of Experimental Psychology: Applied*, 11, 3-12.
- Johannsdóttir, K. R., LeFevre, J.-A., & Herdman, C. (2005). The role of working memory in maintaining situation awareness. In *Proceedings of the Thirteen International Symposium on Aviation Psychology*, Oklahoma City, Oklahoma: The Ohio State University.
- Johannsdóttir, K. R., LeFevre, J.-A., & Herdman, C. (2003). Cognitive system engineering (CSE) framework for evaluating cockpit interfaces. In *Proceedings of The Twelfth International Symposium on Aviation Psychology*, Columbus, OH: The Ohio State University.
- Johannsdóttir, K. R., & Stelmach, L. (2001) Monovision: A Review of the scientific Literature. *Optometry and Vision Science*, 78, 646-651.
- Herdman, C. H., Johannsdóttir, K. R., Lessard, L., Jarmasz, J., Churchill, L. L. & Farrell, P. S. E. (2001). Attentional demands associated with integrating a direct voice input (DVI) system into a multi-crew helicopter environment. In *Proceedings of The Eleventh International Symposium on Aviation Psychology*, Columbus, OH: The Ohio State University.
- Herdman, C. M., Johannsdóttir, K. R., Lessard, L., Churchill, L. L., Wellwood, M., Gamble, M., Armstrong, A., & Farrell, P. S. E. (2001). The impact of a direct voice input (DVI) system on flight safety and mission performance in the CH-146 Griffon helicopter. In *Proceedings of The Eleventh International Symposium on Aviation Psychology*, Columbus, OH: The Ohio State University.
- Jarmasz, J., Herdman, C.M., & Johannsdóttir, K. R. (2001). Grouping symbology with object layers in HUDs. In *Proceedings of The Eleventh International Symposium on Aviation Psychology*, Columbus, OH: The Ohio State University.
- Johannsdóttir, K. R., Herdman, C. M., & Jarmasz, J. (2000). Development of an attitude recovery task for rotary aircraft in a simulator environment. *Engineering Psychology and Cognitive Ergonomics*, Vol 5, 241-248. Ashgate: UK.
- Herdman, C. M., Johannsdóttir, K. R., Jarmasz, J. & Armstrong, J. (2000). Mixed up but flyable: The emergence of object layers in HMDs with head-referenced symbology. *Engineering Psychology and Cognitive Ergonomics*, Vol 5, 73-80. Ashgate: UK.
- Jarmasz, J., Johannsdóttir, K. R. & Herdman, C. M (2000). Object layers in HUDs: Grouping symbology by common motion. *Engineering Psychology and Cognitive Ergonomics*, Vol 5, 65-72. Ashgate: UK.

Workshop papers and other publication

- Valdimarsdóttir, H. B., Jóhannsdóttir, K. R., Hoffman-Peterson, A., Ladd, M., Rini, C., Peshkin, B., Graves, K., & Schwartz, M. D. (2018) Intrusive thoughts, social constraints and the efficacy of genetic counseling for breast cancer susceptibility. Symposium to be presented at: *International Congress of Behavioral Medicine*; Santiago, Chile.
- Oddsóttir, J., Sigurðardóttir, T. Þ., Jóhannsdóttir, K. R., Sveinbjörnsdóttir, B., & Vilhjálmsón, H. H. (2016). Virtual training for discrete trial trainers. In *Proceedings of the workshop on graphical and robotic*

embodied agents for therapeutic systems (GREATS16) at the 16th international conference on intelligent virtual agents, Los Angeles.

- Tashiro, J., Jóhannsdóttir, K., Vargas Martin, M., Reynaga, G. B., & Thorpe, J. (2011). The users' manual to the unconscious mind. *E-Mentor*, 2(39).
- Jóhannsdóttir, K. R., Tashiro, J., Martin, M. V., & Reynaga, G. (2011). The unconscious mind as a mean for authentication. *The APA Newsletter on Philosophy and Computers*. 10, 7-10.

Public presentations and posters

- Richert, E., Jonsdóttir, M., & Jóhannsdóttir, K. R. (2022). Effects of OSA on a fast-paced working memory task considering demographics and depression. To be presented at *the 26th Congress of the European Sleep Research Society*, Athens, Greece (September 27-30).
- Fridgeirsdóttir, K. Y., Arnardóttir E. S., Jóhannsdóttir, K. R., Olafsdóttir, K. A., Saavedra, J. M. (2022). The role of anthropometry, body composition, and physical activity on obstructive sleep apnea severity. To be presented at *the 26th Congress of the European Sleep Research Society*, Athens, Greece (September 27-30).
- Aspelund, SG., Sigurðardóttir Tobin, HR., Daly, HF., Ágústsson, G., Jóhannsdóttir, KR., Halldórsdóttir, T., Stefánsson, JF., Baldursdóttir, B., Valdimarsdóttir H. (2022) Cognitive Impairment and Mental Health Outcomes Among Treatment-Naïve Women with Breast Cancer. Presented at *36th annual conference of the European Health Psychology Society*, Bratislava, Slovakia (August, 23-27).
- Sveinsdóttir, SP., Jóhannsdóttir, KR. (2022) Differences in Heart Rate Variability for high and low trait positive affect. Talk presented at *the 10th European Conference on Positive Psychology*, Reykjavik Iceland (June 29 to July 2).
- Jóhannsdóttir, K. R. (2021). Objective measures of cognitive performance in sleep disorder research: A brief overview and future perspective. Presented at the *World Sleep Congress*, Rome, Italy (March 11-16).
- Valdimarsdóttir, H. B., Jóhannsdóttir, K. R., Hoffman-Peterson, A., Ladd, M., Rini, C., Peshkin, B., Graves, K. & Schwartz, M. D. (2018). Intrusive thoughts, social constraints and the efficacy of genetic counseling for breast cancer susceptibility. Symposium presented at: *International Congress of Behavioral Medicine*; Nov 14-18; Santiago, Chile.
- James, J. J., Jóhannsdóttir, K. R., Baldursdóttir, B., & Tähtinen, R. (2012). Adolescent Life Stress: Some Initial BioBus Findings. Ungt Fólk 1992 – 2012, Reykjavik, October 4.
- Cafaro, A Vilhjálmsón, H. H., Bickmore, T., Heylen, D., Jóhannsdóttir, K. R., and Valgarðsson, G. S. (2012). First Impressions: Users' Judgments of Virtual Agents' Personality and Interpersonal Attitude in First Encounters. Presented at the 12th International Conference on Intelligent Agents. Santa Cruz, California, US. (September, 12-14).
- Olafsdóttir, I. and Jóhannsdóttir, K. R. (2012). The impact of warning and stress on memory and false recall. Presented at the 4th Annual Meeting of the Icelandic Psychological Association, Reykjavik, May 24-25.
- Schmidt, C., and Jóhannsdóttir, K. R. (2011). Simulating Self in Artifacts. Paper presented at *Philosophy and Theory of Artificial Intelligence Conference*. Thessaloniki, 3-4 October.
- Samsonovich, A. V., Jóhannsdóttir, K. R., Stocco, A., and Chella, A. (2011). Biologically Inspired Cognitive Architectures (BICA) Society: Bridging neuroscience, cognitive science and artificial intelligence. In: 2011 Neuroscience Meeting Planner, online. Washington, D.C.: Society for Neuroscience.
- Heenan, A., Jóhannsdóttir, K., Brown, M., & Herdman, C. (2010). The effects of conversation on working memory and situation awareness in simulated driving. Poster presented at the *Annual Meeting of the Canadian Society of Brain, Behaviour and Cognitive Science*. Halifax, NS.
- Jóhannsdóttir, K. R. & Herdman, C. M. (2008). The role of working memory in perceptuomotor tracking. Poster presented at the *Annual Meeting of the Canadian Society of Brain, Behaviour and Cognitive Science*. London, Ontario.
- Herdman, C. M. & Jóhannsdóttir, K. R. (2006). Working memory and driver situation awareness in automobiles: The role of spatial and phonological subsystems. Paper presented at the *16th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science*.
- Jóhannsdóttir, K. R., LeFevre, J.-A., & Herdman, C. (2005). The role of working memory in maintaining situation awareness. Paper presented at the *Thirteen International Symposium on Aviation Psychology*, Oklahoma City, Oklahoma.

- Johannsdottir, K. R., LeFevre, J.-A., & Herdman, C. (2003). Cognitive system engineering (CSE) framework for evaluating cockpit interfaces. Paper presented at the *Twelfth International Symposium on Aviation Psychology*, Columbus, Ohio.
- Johannsdottir, K. R., Herdman, C. M., Lessard, L., Churchill, L. L., Wellwood, M., Gamble, M., Armstrong, A., & Farrell, P. S. E. (2001). The impact of a direct voice input (DVI) system on flight safety and mission performance in the CH-146 Griffon helicopter. Paper presented at the *Eleventh International Symposium on Aviation Psychology*, Columbus, Ohio.
- Johannsdottir, K. R., Herdman, C. M., & Jarmasz, J. (2000). Development of an attitude recovery task for rotary aircraft in a simulator environment. Paper presented at the *Third International Conference on Engineering Psychology and Cognitive Ergonomics*. Edinburgh, Scotland.

Invited talks

- Johannsdottir, K. R. (2009, March). *Alan Turing: The Turing Machine and its influence on cognitive science*. Talk given as a part of the lecture series: Science revolutionaries in the 20th century. (In Icelandic). University of Iceland, Reykjavik.
- Johannsdottir, K. R. (2008, April). *On balancing motherhood and academic life*. Talk given at Women in Science and Engineering End of Term Event. Carleton University, Ottawa, Canada.
- Johannsdottir, K. R. (2007, February). *Are there any limits to what the driver is capable of? The role of working memory in maintaining drivers' situation awareness* (in Icelandic). Talk given at Félagsvísindatorg. University of Akureyri
- Johannsdottir, K. R. (2005, October). *Conscious computers: What are the minimum requirements?* Talk given as a part of the lecture series: Does the matter know about the mind? (in Icelandic). University of Iceland, Reykjavik.
- Herdman, C. M., Jarmasz, J., & Johannsdottir, K. R. (1999, January). *Designing symbologies for head-up and helmet-mounted displays: The impact of object-based attention on the perception and tracing of elements in complex displays*. Talk given at DCIEM, Toronto, Canada
- Johannsdottir, K. R. (1999, August). *Monovision: The effect of monocularly blurred images*. Communication Research Canada, Ministry of Industry, Ottawa, Canada

Experience:

- Courses taught 2000-present
 - Elements in Cognitive Science 07301
 - Sensation and Perception HSYK-E-215
 - Cognitive Psychology HUG017, HUMT-E-414
 - Cognitive Neuroscience E-601-HUTA
 - Experimental Psychology E-313-SATI
 - General Psychology ALM0175/0176
 - Biological Psychology SAL0173
 - Research Methods in Psychology RAS0175
 - Seminar in Cognitive Psychology, HUG0273
 - Quantitative Research Methods (master level) MER155
- Guest lecturer, 2006, ERASMUS seminar: *Cognition, Motivation, and Action*, University of Akureyri, Iceland
 - Cognition, motivation and action: The role of emotion in cognition
 - Action and virtual reality: The requirements for simulating emotion in a cognitive system
- Guest lecturer, 2005, ERASMUS seminar: *Mind, Language and Cognitive Science*, University of Iceland, Reykjavík, Iceland
 - Classical cognitive science I: The computer metaphor and levels of explanation
 - Classical cognitive science II: Symbolic systems and representations
 - Cognitive theory and virtual reality
- Researcher 1998-2004, Centre for Applied Cognitive Research, Carleton University/Canadian Marconi Company, Ottawa, Canada
 - Testing and evaluation for the Tactical Aviation Mission System Simulation project, experiments I, II and III

- Evaluation and development of Heads Up Displays (HUDs) for Night Vision Goggles (NVG) for the Canadian Forces, search and rescue helicopters
- The development of HUD symbology for the TTCP Allied Nations Technical Panel 2
- The development of a direct voice input system for CH146 Griffon helicopters

Simulator-Based and Basic Research Skills:

- Cognitive science and aviation psychology - focus on working memory and situation awareness
 - Experimental design
 - Programming of cognitive experiments using E-Prime (windows-based psychology experimental software program)
 - Basic training course in Vection/Hyper Drive v1.6.1
 - Administration (scheduling participants, briefing/debriefing, administering tests)
 - Designing and administering questionnaires
 - Data analysis (SPSS v. 8-27; Excel)
 - The development of a Cognitive System Engineering framework for conducting cockpit research

Other professional activities:

- 2019-2021 RU curriculum council.
- 2017-2018 Editor, the Icelandic Journal of Psychology.
- 2017 Program committee for IJCAI workshop on Architectures for generality and autonomy. Held in Melbourne August, 2017.
- 2011-2021 Ethics committee, Reykjavik University
- 2013-2015 Editorial Board and Organizational Committee Member for the Icelandic Psychology Association, Annual Meeting
- 2012-2013 Editorial Board Member for the journal of Biologically Inspired Cognitive Architecture
- 2011 Program Committee for The Fourth Conference on Artificial General Intelligence, 3-6 August, Mountain View, California, USA
- 2011 Co-Chair: The Second International Conference on Biologically Inspired Cognitive Architectures, (November 5-6, 2011). Arlington, Virginia
- 2010-present Board of Directors for the BICA Society
- 2010 Co-founder of the BICA Society
- 2010 Co-Chair: The First International Conference on Biologically Inspired Cognitive Architectures, (November 13-14, 2010). Arlington, Virginia.
- 2009 Chair: Special Session on Self in Artifacts. AAAI Fall Symposium Series (November 2009): Biologically Inspired Cognitive Architectures. Arlington, Virginia.
- 2009-2011 Evaluation Committee for Women in Defence and Security Scholarship, Ottawa, Canada (2010-2011)
- Ethics committee (2004-2006), Department of Law and Social Sciences, University of Akureyri, Akureyri, Iceland