Qualifications
Doctoral degree, Humanities, University of Helsinki
Award Date: 15 Oct 1985
Licentiate degree, Natural Sciences, University of Helsinki
Award Date: 28 May 1985
Master's degree, Humanities, University of Helsinki
Award Date: 25 Sept 1979
Bachelor's degree, Social Sciences, University of Helsinki
Award Date: 29 May 1979

Employment
Senior Advisor
Department of Neuroscience and Biomedical Engineering
Aalto University
1 Jun 2021 → present

Professor
Department of Computer Science
Aalto University
Finland
1 Jan 2016 → present

Adjunct professor
University of Helsinki
Helsinki, Finland
1 Jan 1987 → present

Research output
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Phonetic invariance in the human auditory cortex
Hari, R., Aulanko, R., Lounasmaa, O., Näätänen, R. & Sams, M., 30 Sept 1993, In: Neuroreport. 4, 12, p. 1356-1358 3 p.

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ABSOLUTE PITCH AND EVENT-RELATED BRAIN POTENTIALS
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Brain research with a whole-head 122-channel neuromagnetometer
Lounasmaa, O., Sams, M., Mäkelä, J. & Hari, R., 1993, In: Ibro News. 21, 2, p. 6-7

Higher brain functions reflected in MEG
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The human auditory sensory memory trace persists about 10 sec: neuromagnetic evidence
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Whole-head neuromagnetic recordings of responses to deviant auditory stimuli
Levänen, S., Ahonen, A., Hämäläinen, M., Hari, R., Lounasmaa, O. V., Mäkelä, J. P., McEvoy, L., Pardo, P. J. & Sams, M. , 1993, Vienna, p. 134-135, (9th International Conference on Biomagnetism, Vienna, Itävalta, 14.-20.8.1993).

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Neuromagnetic mismatch fields to single and paired tones
Hari, R., Rif, J., Tiihonen, J. & Sams, M., Feb 1992, In: Electroencephalography and Clinical Neurophysiology. 82, 2, p. 152-154 3 p.

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MAGNETIC RESPONSES REVEAL SOMATOTOPIC ORGANIZATION OF THE 2ND SOMATOSENSORY CORTEX
HARI, R., KARHU, J., SAMS, M., HAMALAINEN, M. & KNUUTILA, J., 1992, BIOMAGNETISM: CLINICAL ASPECTS.
Hoke, M., Erne, SN., Okada, YC. & Romani, GL. (eds.). Elsevier, p. 229-232 4 p. (INTERNATIONAL CONGRESS SERIES; vol. 988).

Mismatch responses to changes in single auditory stimulus features are additive
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Multichannel MEG studies of human cognitive functions
Sams, M., 1992, In: Biomedical Research . 13, p. 57-60 4 p.

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Rif, J., Hari, R., Hämäläinen, M. S. & Sams, M., Dec 1991, In: Electroencephalography and Clinical Neurophysiology. 79, 6, p. 464-472 9 p.

Seeing speech: visual information from lip movements modifies activity in the human auditory cortex
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Neuromagnetic responses of the human auditory cortex to short frequency glides
Sams, M. & Näätänen, R., 2 Jan 1991, In: Neuroscience Letters. 121, 1-2, p. 43-46 4 p.

Cortical activity elicited by changes in auditory stimuli: Different sources for the magnetic N100m and mismatch responses
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Cortical responses to changes in auditory stimuli: Magnetoencephalographic studies
Sams, M., 1991, In: Acta Oto-Laryngologica. Supplement. 111, 491, p. 124-131 8 p.

Seeing faces activates three separate areas outside the occipital visual cortex in man
Lu, S. T., Hämäläinen, M. S., Hari, R., Ilmoniemi, R. J., Lounasmaa, O. V., Sams, M. & Vilkman, V., 1991, In: Neuroscience. 43, 2-3, p. 287-290 4 p.

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Mismatch negativity (MMN) for sequences of auditory and visual stimuli: evidence for a mechanism specific to the auditory modality
Nyman, G., Alho, K., Laurinen, P., Paavilainen, P., Radil, T., Reinikainen, K., Sams, M. & Näätänen, R., 1990, In: Electroencephalography and Clinical Neurophysiology. Evoked Potentials. 77, 6, p. 436-444 9 p.

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Alho, K., Sams, M., Paavilainen, P., Reinikainen, K. & Naatanen, R., Sept 1989, In: Psychophysiology. 26, 5, p. 514-528 15 p.

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Winkler, I., Paavilainen, P., Alho, K., Reinikainen, K., Sams, M. & Näätänen, R., Aug 1989, In: International Journal of Psychophysiology. 7, 2-4, p. 439-440 2 p.

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Radil, T., Sams, M., Paavilainen, P., Reinikainen, K., Alho, K., Naatanen, R., Nyman, G. & Laurinen, P., 1988, In: Estetika: The Central European Journal of Aesthetics. 37, 4, p. 363-363 1 p.

No Visual Mismatch Potential Found
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Brain mechanism of selective listening reflected by event-related potentials
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Alho, K., Donauer, N., Paavilainen, P., Reinikainen, K., Sams, M. & Nätänen, R., Apr 1987, In: Biological Psychology. 24, 2, p. 153-162 10 p.

BRAIN RESPONSES TO INFREQUENT INTENSITY INCREASES AND DECREASES IN A SEQUENCE OF AUDITORY-STIMULI
Naatanen, R., Paavilainen, P., Alho, K., Reinikainen, K. & Sams, M., 1987, In: International Journal of Neuroscience. 34, 3-4, p. 222-222 1 p.

DISAPPEARANCE OF MISMATCH NEGATIVITY DURING SLEEP
Cammann, R., Paavilainen, P., Alho, K., Naatanen, R., Reinikainen, K. & Sams, M., 1987, In: International Journal of Neuroscience. 34, 3-4, p. 154-155 2 p.

Separability of different negative components of the event-related potential associated with auditory stimulus processing
Alho, K., Paavilainen, P., Reinikainen, K., Sams, M. & Nätänen, R., Nov 1986, In: Psychophysiology. 23, 6, p. 613-623 11 p.

Small pitch separation and the selective-attention effect on the ERP
Alho, K., Sams, M., Paavilainen, P. & Naatanen, R., Mar 1986, In: Psychophysiology. 23, 2, p. 189-197 9 p.

Auditory frequency discrimination and event-related potentials
Sams, M., Paavilainen, P., Alho, K. & Nätänen, R., Nov 1985, In: Electroencephalography and Clinical Neurophysiology. Evoked Potentials. 62, 6, p. 437-448 12 p.

Cerebral neuromagnetic responses evoked by short auditory stimuli
Sams, M., Hämäläinen, M., Antervo, A., Kaukoranta, E., Reinikainen, K. & Hari, R., Oct 1985, In: Electroencephalography and Clinical Neurophysiology. 61, 4, p. 254-266 13 p.

Responses of the primary auditory cortex to pitch changes in a sequence of tone pips: Neuromagnetic recordings in man
Hari, R., Hämäläinen, M., Ilmoniemi, R., Kaukoranta, E., Reinikainen, K., Alho, K., Nätänen, R., Sams, M. & Salminen, J., 7 Sept 1984, In: Neuroscience Letters. 50, 1-3, p. 127-132 6 p.

Short-term habituation and dishabituation of the mismatch negativity of the ERP
Sams, M., Alho, K. & Naatanen, R., Jul 1984, In: Psychophysiology. 21, 4, p. 434-441 8 p.

Sequential effects on the ERP in discriminating two stimuli
Sams, M., Alho, K. & Nätänen, R., Aug 1983, In: Biological Psychology. 17, 1, p. 41-58 18 p.

DETERMINATION OF THE ACTIVITY OF MOTOR CORTEX NEURONS IN BEHAVIOR
Alexandrov, Yi., Grinchenko, Yv., Shvyrkov, VB., Järvelehto, T. & Sams, M., 1983, In: PSIKOLOGICHESKII ZHURNAL. 4, 2, p. 74-86 13 p.

Auditory evoked transient and sustained potentials in the human EEG: I. Effects of expectation of stimuli
Hari, R., Sams, M. & Järvelehto, T., Dec 1979, In: Psychiatry Research. 1, 3, p. 297-306 10 p.

Auditory evoked transient and sustained potentials in the human EEG: II. Effects of small doses of ethanol
Hari, R., Sams, M. & Järvelehto, T., Dec 1979, In: Psychiatry Research. 1, 3, p. 307-312 6 p.

Effect of stimulus repetition on negative sustained potentials elicited by auditory and visual stimuli in the human EEG
Järvelehto, T., Hari, R. & Sams, M., Sept 1978, In: Biological Psychology. 7, 1-2, p. 1-12 12 p.

Activities
**Creative Technologies**  
Laura Beloff (Speaker) & Mikko Sams (Contributor)  
30 Mar 2023

**NATURALISTIC EXPERIMENTAL APPROACHES TO MECHANISMS OF HUMAN BEHAVIOR: RELEVANT FOR STUDYING ABSTRACT CONCEPTS?**  
Mikko Sams (Invited speaker)  
15 Mar 2021 → 17 Mar 2021

**7 Experiences – Aalto Experience Summit to endorse Experience Research as a multidisciplinary research field**  
Mikko Sams (Chair)  
1 Sept 2020 → 2 Sept 2020

**Emotions: in evolution, in body, in brain**  
Mikko Sams (Speaker)  
25 Feb 2019 → 26 Feb 2019

**History of Emotions**  
Mikko Sams (Organiser)  
7 Nov 2018 → 8 Nov 2018

**Ihmisaivojen toiminnan mitaaminen taidekokemuksen kuluessa**  
Mikko Sams (Speaker)  
6 Nov 2018

**Your in-group influences how you see others**  
Mikko Sams (Speaker)  
21 Oct 2018

**International Conference on Cognitive Science**  
Mikko Sams (Chair)  
18 Oct 2018 → 21 Oct 2018

**Psychological Human Cognitive Neuroscience**  
Mikko Sams (Keynote speaker)  
18 Oct 2018 → 21 Oct 2018

**Decoding Emotions from Brain Activity**  
Mikko Sams (Speaker)  
11 Oct 2018 → 12 Oct 2018

**Examiner and opponent in Århus Universitet**  
Mikko Sams (Examiner)  
28 Jun 2018

**Expert evaluator of the planned programme “Biomedical and Health Engineering”**  
Mikko Sams (Reviewer)  
10 Jun 2018

**Hybrid Labs Symposium**  
Mikko Sams (Speaker)  
31 May 2018

**Making cognitive neuroscience more psychological.**  
Mikko Sams (Speaker)
Making cognitive neuroscience more psychological.
Mikko Sams (Speaker)
29 Oct 2017

Experience Platform (Event)
Mikko Sams (Member)
1 Sept 2017 → ...

Kohti psykologista neurotiedettä.
Mikko Sams (Speaker)
28 Apr 2017

Evaluator for Assistant Professorship in University of Nottingham
Mikko Sams (Examiner)
2017

Early years of N100 and Mismatch Negativity Response in human auditory neuroscience.
Mikko Sams (Speaker)
7 Nov 2016

Neurocognition of shared reality.
Mikko Sams (Speaker)
31 Oct 2016

Aarhus University
Mikko Sams (Visiting researcher)
1 Sept 2016 → 30 Nov 2016

Homophilic Brains?
Mikko Sams (Speaker)
28 Apr 2016

Evaluator for promotion to Full Professorship, Harvard Medical School
Mikko Sams (Reviewer)
2016

Attending and Neglecting People
Mikko Sams (Member)
16 May 2015 → 20 May 2015

Neural duets: Shared understanding between two brains that are watching movies.
Mikko Sams (Speaker)
29 Jan 2015

Evaluator for Associate Professorship in University of Oxford
Mikko Sams (Examiner)
2015

Neural duets: Shared understanding between two brains that are watching movies
Mikko Sams (Speaker)
14 Nov 2014 → 15 Nov 2014
Studying brain under naturalistic conditions
Mikko Sams (Speaker)
2 Jun 2014

Uri Hasson
Mikko Sams (Host)
1 Jan 2014

Aalto University (Organisational unit)
Mikko Sams (Chair)
2014 → 2017

Aalto University (Organisational unit)
Mikko Sams (Chair)
2014 → 2017

Cognition and Emotion (Journal)
Mikko Sams (Editor)
2014 → 2017

Lyon Neuroscience Research Center
Mikko Sams (Visiting researcher)
2014

Northwestern University
Mikko Sams (Visiting researcher)
2014

PloS one (Journal)
Mikko Sams (Editor)
2014 → 2017

The Neurosciences and Music V, Dijon, 29.5.-1.6.2014, France
Mikko Sams (Contributor)
2014

Processing of emotional valence in the brain.
Mikko Sams (Speaker)
11 Jun 2013 → 15 Jun 2013

Brain activity during listening to music and experiencing feelings: naturalistic approach.
Mikko Sams (Speaker)
29 Apr 2013

Real-world (almost) caused brain activity.
Mikko Sams (Speaker)
22 Apr 2013

Real-world (almost) caused brain activity.
Mikko Sams (Speaker)
18 Apr 2013
Studying social brains in real world.
Mikko Sams (Speaker)
12 Apr 2013

Intersubjectivity in cognitive neuroscience: Experimentalist's point of view.
Mikko Sams (Speaker)
5 Apr 2013

Studying Emotions and music in aivoAALTO project
Mikko Sams (Speaker)
8 Mar 2013

Alin Coman
Mikko Sams (Host)
1 Jan 2013

2013, San Francisco, USA; 13.-16.4.2013, United States
Mikko Sams (Contributor)
2013

Aalto University (Organisational unit)
Mikko Sams (Member)
2013 → 2017

Princeton University
Mikko Sams (Visiting researcher)
2013

Aalto University (Organisational unit)
Mikko Sams (Member)
2012 → 2017

Aalto University (Organisational unit)
Mikko Sams (Chair)
2012 → 2015

Doctoral thesis opponent at Aalto University
Mikko Sams (Opponent)
2012

University of Oxford
Mikko Sams (Visiting researcher)
2012

David McAlpine
Mikko Sams (Host)
1 Jan 2011

14th International Congress of ESCAP - European Society for Child and Adolescent Psychiatry, Finland
Mikko Sams (Contributor)
2011

34th ARO MidWinter Meeting, Baltimore, Maryland, USA, February 19-23, 2011, USA
Mikko Sams (Contributor)
2011
34th ARO MidWinter Meeting, Baltimore, Maryland, USA, February 19-23, 2011, USA
Mikko Sams (Contributor)
2011

Georgetown University
Mikko Sams (Visiting researcher)
2011

Invited talk in seminar of the Leibniz Institute for Neurobiology, Center for Learning and Memory Research, June 7, 2011, Germany
Mikko Sams (Contributor)
2011

Northwestern University
Mikko Sams (Visiting researcher)
2011

Seminar in University Medical Center (CMU), University of Geneve, Switzerland
Mikko Sams (Contributor)
2011

The Exbodied Mind: Motion in Communication and Cognition Research, RWTH Aachen University, Germany, 8.-9.4.2011, Germany
Mikko Sams (Contributor)
2011

Yhteistyötapaaaminen Emotions in science and art, Portugal
Mikko Sams (Contributor)
2010

2nd International Conference on Imaging in Neuroscience, Tromso, 9.-13.9.2009, Norway
Mikko Sams (Speaker)
2009

Brain-Learning-Education Network (External organisation)
Mikko Sams (Chair)
2009 → 2010

Evaluator for promotion to Associate Adjunct Professor, UCSD, USA
Mikko Sams (Reviewer)
2009

FRONTIERS IN HUMAN NEUROSCIENCE (Journal)
Mikko Sams (Editor)
2009 → 2017

Harry Bronson
Mikko Sams (Host)
2009

Jean-Luc Schwartz
Mikko Sams (Host)
2009
Kelly Spencer
Mikko Sams (Host)
2009

Learning Mind and Brain, Moscow, 16.-20.11.2009, Russia
Mikko Sams (Contributor)
2009

Marc Sato
Mikko Sams (Host)
2009

Marshall Dawson
Mikko Sams (Host)
2009

Nina Kraus
Mikko Sams (Host)
2009

RIKEN BSI Joint Workshop on Cognitive and Social Brain, Tokyo, 25.-26.5.2009, Japan
Mikko Sams (Speaker)
2009

Acoustics
Mikko Sams (Chair)
2008

Acoustics’08 kokous, Parisi, 27.6.-5.7. 2008, France
Mikko Sams (Contributor)
2008

Alfred Kordelin Foundation (External organisation)
Mikko Sams (Member)
2008 → 2014

Christian Benoit Muistasymposium, Grenoble, 27.-31.10.2008, France
Mikko Sams (Speaker)
2008

Evaluator for promotion to associate professor, Harvard University, USA
Mikko Sams (Reviewer)
2008

Foreign Organisation
Mikko Sams (Visiting researcher)
2008

International Organization of Psychology annual meeting, Pietari, 11.-13.9.2008., Russia
Mikko Sams (Speaker)
2008
Lyon Neuroscience Research Center
Mikko Sams (Visiting researcher)
2008

HCSNet SummerFest
Mikko Sams (Member)
2007

HCSNet SummerFest '07, University of New South Wales, Sydney, December 3-7, 2007, Australia
Mikko Sams (Contributor)
2007

Kylliäinen, Anneli (University of Tampere) Finland
Mikko Sams (Examiner)
2007

Kylliäinen, Anneli (University of Tampere) Finland
Mikko Sams (Opponent)
2007

Northwestern University, USA, October 15, 2007, USA
Mikko Sams (Contributor)
2007

Anu Kujala (Helsinki University, Department of Psychology) Finland
Mikko Sams (Opponent)
2006

Brain Awareness week, Helsinki Collegium for Advanced Studies, March 16th, Finland
Mikko Sams (Speaker)
2006

Chris Davis
Mikko Sams (Host)
2006

Cross-modal interaction in natural and artificial cognitive systems (CINACS), Hamburg, September 28, 2006, Germany
Mikko Sams (Speaker)
2006

International Cerebral Palsy Conference, Oulu, February 2-5, 2006, Finland
Mikko Sams (Speaker)
2006

Josef Rauchecker
Mikko Sams (Host)
2006

PENS/Hertie Winter School 2006. Brain Basis of Social Interaction: From Concepts to Imaging, Kitzbuhel, Austria, December 10-17, 2006, Austria
Mikko Sams (Speaker)
2006

R. Holland Cheng
Mikko Sams (Host)
2006

**University of Helsinki (External organisation)**
Mikko Sams (Chair)
2006 → 2017

**Vesa Talvitie (Helsinki University, Department of Psychology) Finland**
Mikko Sams (Examiner)
2006

**Yuri Alaxandrov**
Mikko Sams (Host)
2006

**Doctoral thesis opponent at University of Oxford, UK**
Mikko Sams (Opponent)
2005

**Evaluator for promotion of associate professor to full professor, Tilburg University, The Netherlands**
Mikko Sams (Reviewer)
2005

**Määttä, Sara (Kuopion yliopisto)**
Mikko Sams (Examiner)
2005

**8th International Congress on Spoken Language Processing, Jeju, South-Korea, October 4-8, 2004, South-Korea**
Mikko Sams (Contributor)
2004

**Evaluator for promotion for a position of associate professor in radiology: Giorgio Bonmassar, Harvard Medical School**
Mikko Sams (Reviewer)
2004

**Brain Research (Journal)**
Mikko Sams (Editorial board member)
2002

**Human Brain Mapping (Journal)**
Mikko Sams (Editorial board member)
2002

**Journal of Cognitive Neuroscience (Journal)**
Mikko Sams (Editorial board member)
2002

**Psychophysiology (Journal)**
Mikko Sams (Editorial board member)
2002

**Aalto University (Organisational unit)**
Mikko Sams (Member)
2001 → 2017
Yuri I. Alexandrov
Mikko Sams (Host)
2001

**Doctoral thesis opponent at University of Helsinki**
Mikko Sams (Opponent)
2000

**Polysteekki (Journal)**
Mikko Sams (Editorial board member)
2000 → 2008

Dominic Massaro
Mikko Sams (Host)
1998

Donald Schankweiler
Mikko Sams (Host)
1998

Yuri I. Alexandrov
Mikko Sams (Host)
1998

**International Organization of Psychophysiology (External organisation)**
Mikko Sams (Chair)
1997 → 2003

**Doctoral thesis opponent at University of Bergen**
Mikko Sams (Opponent)
1996

**Tampere University (External organisation)**
Mikko Sams (Member)
1996 → 1998

**TIEDE (Journal)**
Mikko Sams (Editorial board member)
1996 → 2006

**Academy of Finland (External organisation)**
Mikko Sams (Member)
1995 → 2002

**Brain Research Society of Finland (External organisation)**
Mikko Sams (Member)
1995 → 2002

**Prizes**

*International Samuel Sutton prize of the Society for Psychophysiology for 'The best dissertation in psychophysiology in 1985–1986'.*

Sams, Mikko (Recipient), 1987
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