

**Byoung-Kyong Min, Ph.D.**

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**Personal information**

First name: Byoung-Kyong  
Last name: Min  
Date of Birth: July 4, 1970  
Place of Birth: Seoul, Korea  
Nationality: Republic of Korea  
Web-site: <http://mind21.net>  
Email: min\_bk@korea.ac.kr



**Current Position**

Since 2012 Mar. **Assistant Professor**  
**Department of Brain and Cognitive Engineering**  
**Korea University, Seoul, 136-713, Korea**

Tel: +82-2-3290-5928  
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**Current Research Interest**

EEG/MEG/fMRI-based cognitive experiment (Pre-stimulus / Top-down process / Attention / Perception),  
Consciousness & Thalamus, Brain-Brain Interface, EEG-base Brain-Computer interface, Neuromodulation  
by Ultrasound sonication

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**Specialized Research Tools**

EEG, MEG, MRI, Ultrasound sonication

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**Educations**

2003 Jan-2007 Jul **Ph.D. in Psychology** (Advisor: Prof. Dr. Christoph Herrmann)  
Department of Biological Psychology, Institute for Psychology  
**Otto-von-Guericke University Magdeburg, Germany**

1997 Sep-1998 Jun **M.Sc. in Neurobiology and Physiology** (Advisor: Prof. Fred Turek, Ph.D.)  
Department of Neurobiology and Physiology (NSF Bio-timing Lab.)  
**Northwestern University, The Graduate School, IL, USA**

1990 Mar -1994 Feb Seoul National University, Korea  
B.S. (Forest Science/ Chemistry)

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**Ph.D./M.Sc. Theses**

1. **Min BK**, 'The top-down function of prestimulus EEG alpha activity' (*Magdeburg University* (Germany), Department of Biological Psychology, Ph.D. Thesis: July 4, 2007)

2. **Min BK**, 'Light-induced Synchronization of the Suprachiasmatic Neural Network: Converting Glutamate to GABA' (*Northwestern University* (USA), The Graduate School, Department of Neurobiology and Physiology, M.S. Thesis: June 19, 1998)

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## Research Experiences

2011 Sep-2012 Feb	Research Assistant Professor Institute of Behavioral Sciences in Medicine Yonsei University, College of Medicine (Severance Hospital), Seoul, Korea
2011 May-2011 Aug	Research fellow Institute of Behavioral Sciences in Medicine Yonsei University, College of Medicine (Severance Hospital), Seoul, Korea
2009 Nov-2011 Mar	Research fellow (Department of Radiology) Harvard Medical School, Brigham and Women's Hospital 75 Francis street, Boston, MA 02115, USA
2007 Oct-2009 Sep	Post-doctoral fellow (Advisor: Prof. Jae-Jin Kim, M.D./Ph.D. and Prof. Hae-Jeong Park, Ph.D) Brain Korea 21 project for Medical Science (Neuroscience unit) Yonsei University, College of Medicine (Severance Hospital), Seoul, Korea
2002 Jul-Aug	DAAD-KOSEF Summer Research Institute Program Otto-von-Guericke University Magdeburg, Germany
2001 Sep-2002 Nov	Interdisciplinary Program in Cognitive Science (Advisor: Prof. Jun-Soo Kwon, M.D., Ph.D.) Seoul National University, Korea
2001 May-2003 May	Neuroscience Research Institute, Medical Research Center College of Medicine, Seoul National University, Korea
2001 Mar-2002 Aug	Clinical Research Institute Seoul National University Hospital, Korea
1996 summer	Johns Hopkins University, MD, USA The Zanvyl Krieger Mind/Brain Institute (Short-term visiting 'computational neuroscience lab')
1996 Mar-Aug	Korea Advanced Institute of Science and Technology (KAIST) Department of Physics, Brain Lab. (Advisor: Prof. Soo-Yong Kim, Ph.D.)

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## Other Professional Experiences and Activities

2012 1 <sup>st</sup> semester	<i>Lecture</i> (Class: Neuroscience)– graduate course Department of Brain and Cognitive Engineering <i>Korea University</i> , Seoul, Korea
2012 1 <sup>st</sup> semester	<i>Lecture</i> (Class: Introduction to Brain and Cognitive Science)– undergraduate course Department of Brain and Cognitive Engineering <i>Korea University</i> , Seoul, Korea
2012 Jan-present	Review-board of long-term strategy for the development of Science & Technology Korea Institute of Science & Technology Evaluation and Planning, Seoul, Korea
2012 Jan-present	A trustee member of the public relations, Korean Society for Cognitive Science
2012 Mar-present	A trustee member of the international co-work, Korean Brain Engineering Society
2011 2 <sup>nd</sup> semester	<i>Lecture</i> (Class: Advanced Cognitive Science Seminar) – graduate course Instructor, Department of Communication Science <i>Konkuk University</i> , Seoul, Korea
2010-2011	Mentoring students for <i>Senior Design Project</i> at Boston University (Department of Biomedical Engineering), Boston, USA
2009 2 <sup>nd</sup> semester	<i>Lecture</i> (Class: Methodology of Cognitive Science)– graduate course (team teaching)

	Instructor, Interdisciplinary Program in Cognitive Science <i>Seoul National University</i> , Seoul, Korea
2008 Nov	Contribution of an essay to the official webzine of BK21 project for Medical Science, Yonsei University, Seoul, Korea
2008 2 <sup>nd</sup> semester	<i>Lecture</i> (Class: Cognitive Neuroscience Seminar) – graduate course Instructor, Interdisciplinary Program in Cognitive Science <i>SungKyunKwan University</i> , Seoul, Korea
2008 1 <sup>st</sup> semester	<i>Lecture</i> (Class: Brain, Mind & Behavior) – undergraduate course Instructor, Department of Psychology <i>SungKyunKwan University</i> , Seoul, Korea
2008 Jan	Organization of 2007/2008 Winter workshop (Sogang University) of Korean Students Association of Cognitive Science
2002/2007	Founder and President of Korean Students Association of Cognitive Science
2000-2001	Contribution of Neuroscience essays to Korea Science Foundation official webzine

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### Review Activity for the following International Journals

NeuroImage  
BMC Neuroscience  
Journal of Cognitive Science

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### Publications

#### Journal articles

1. Yoo SS, Kim HM, **Min BK**, Franck E, Park SS, 'Transcranial focused ultrasound to the thalamus alters anesthesia time in rats' *Neuroreport*, 22 (15), 2011, pp. 783-787
2. **Min BK**, Kim SJ, Park JY, Park HJ, 'Prestimulus top-down reflection of obsessive-compulsive disorder in EEG occipital alpha and frontal theta oscillations' *Neuroscience Letters*, 496, May 2011, pp. 181-185
3. Bystritsky A, Korb AS, Douglas PK, Cohen MS, Melega WP, Mulgaonkar AP, Desalles A, **Min BK**, Yoo SS, 'A review of low intensity focused ultrasound pulsation' *Brain Stimulation*, 4 (3), 2011, pp. 125-136
4. **Min BK**, Bystritsky A, Jung KI, Fischer K, Zhang Y, Maeng LS, Park SI, Chung YA, Jolesz FA, Yoo SS, 'Focused ultrasound-mediated suppression of chemically-induced acute epileptic EEG activity' *BMC Neuroscience*, 2011, 12:23 ([posted as a highly-accessed article](#))
5. **Min BK**, Yang PS, Bohlke M, Park SS, Vago DR, Maher TJ, Yoo SS, 'Focused ultrasound modulates the level of cortical neurotransmitters: Potential as a new functional brain mapping technique' *International Journal of Imaging Systems and Technology*, 21 (2), 2011, pp. 232-240
6. Yoo SS, Bystritsky A, Lee JH, Zhang Y, Fischer K, **Min BK**, McDannold N, Pascual-Leone A, Jolesz F, 'Focused ultrasound modulates region-specific brain activity' *NeuroImage*, 56 (3), 2011, pp. 1267-1275
7. Yoo SS, Bystritsky A, Lee JH, Zhang Y, Fischer K, **Min BK**, McDannold N, Jolesz F, Pascual-Leone A, 'TMS1.1 Noninvasive brain stimulation using focused ultrasound' *Clinical Neurophysiology*, 122, 2011, pp. S52-S53
8. **Min BK**, Marzelli M, Yoo SS, 'Neuroimaging-based approaches in brain-computer interface' *Trends in Biotechnology*, 28 (11), November 2010, pp. 552-560 ([selected as a cover-featured article](#))
9. Park HD, **Min BK**, Lee KM, 'EEG oscillations reflect visual short-term memory processes for the change detection in human faces' *NeuroImage*, 53 (2), 2010, pp. 629-637
10. **Min BK**, Park HJ, 'Task-related modulation of anterior theta and posterior alpha EEG reflects top-down preparation' *BMC Neuroscience*, 2010, 11: 79

11. **Min BK**, 'A thalamic reticular networking model of consciousness' *Theoretical Biology & Medical Modelling*, 2010, **7**: 10 ([posted as a highly-accessed article; This article will be cited in 'Meditating Selflessly' by the MIT press](#))
12. **Min BK**, 'Spectral analysis of brain oscillatory activity' *Korean Journal of Cognitive Science*, 20 (2), June 2009, pp. 155-181
13. **Min BK**, Park JY, Kim EJ, Kim JI, Kim JJ, Park HJ, 'Prestimulus EEG alpha activity reflects temporal expectancy' *Neuroscience Letters*, 438 (3), June 2008, pp. 270-274
14. Herrmann CS, Pauen M, **Min BK**, Busch NA, Rieger JW, 'Analysis of a choice-reaction task yields a new interpretation of Libet's experiments' *International Journal of Psychophysiology*, 67 (2), February 2008, pp. 151-157
15. **Min BK**, Herrmann CS, 'Prestimulus EEG alpha activity reflects prestimulus top-down processing' *Neuroscience Letters*, 422 (2), July 2007, pp. 131-135
16. **Min BK**, Busch NA, Debener S, Kranczioch C, Hanslmayr S, Engel AK, Herrmann CS, 'The best of both worlds: phase-reset of human EEG alpha activity and additive power contribute to ERP generation' *International Journal of Psychophysiology*, 65 (1), July 2007, pp. 58-68
17. Choi JM, Bae BH, **Min BK**, Kim SY, 'The analysis of brain activity in wakefulness and deep sleep states from a dog EEG' *Journal of the Korean Physical Society*, 30 (2), April 1997, pp. 328-333

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### Book chapter and Booklet

1. Herrmann CS, Pauen M, **Min BK**, Busch NA, Rieger J, 'Eine neue interpretation von Libets experimenten aus der analyse einer wahlreaktionsaufgabe' In Herrmann CS, Pauen M, Rieger J, Schickanz S (ed.), "*Bewusstsein (Consciousness)*", pp. 120-134, Utb. 2005 (ISBN 3-8252-2686-7)
2. **Min BK**, 'MIND' (Neuroscience E-book in Korean PDF version), Mind21, 2000 (ISBN 89-89350-00-X)
3. **Min BK**, 'The present and future of Brain-Computer interface' In Hong SW, Jang DY (ed.), "Neuro-Humanities" (in preparation)

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### Abstracts and Conference proceedings

1. **Min BK**, Park JY, Kim ES, Jung YC, 'Bright and warm lightning reduces parietal EEG alpha activity during the continuous performance task' The 30<sup>th</sup> International Congress of Psychology, Cape Town, South Africa, July 2012
2. **Min BK**, Park JY, Kim ES, Jung YC, 'Bright lightning reduces frontal EEG theta activity during the Sternberg memory task' The 16<sup>th</sup> annual meeting of the Association for the Scientific Study of Consciousness, Brighton, UK, July 2012
3. Yoo SS, Pascual-Leone A, **Min BK**, Fischer K, Yang PS, Jolesz F, 'Computer-controlled, image-guided focused ultrasound system for neuromodulation' The 7<sup>th</sup> World Stroke Congress, Seoul, Korea, October 2010
4. Yoo SS, Bystritsky A, Lee JH, Zhang Y, **Min BK**, Fischer K, McDannold N, Jolesz F, Pascual-Leone A, 'Localized Modulation of Brain Function using Pulsed Low-intensity Focused Ultrasound' The 16<sup>th</sup> Annual Meeting of *Human Brain Mapping*, Barcelona, Spain, June 2010, p. 4
5. **Min BK**, Kim SJ, Park JY, Park HJ, 'Prestimulus top-down reflection of obsessive-compulsive disorder in EEG frontal theta and occipital alpha bands' The 39<sup>th</sup> Annual Meeting of *Society for Neuroscience*, Chicago, USA, October 2009
6. **Min BK**, Park HJ, 'EEG frontal alpha and occipital gamma activities of congenitally blind subjects during mental rotation' The 23<sup>rd</sup> Annual Conference of *The Korean Society for Cognitive Science*, Seoul, Korea, May 2009; Printed in 'Proceedings of the Korean Society for Cognitive Science Conference', May 2009
7. **Min BK**, Kim JJ, Park HJ, 'Prestimulus EEG frontal theta and occipital alpha activities reflect prestimulus top-down processing' The 16<sup>th</sup> Annual Meeting of *Cognitive Neuroscience Society*, San

- Francisco, USA, March 2009; Printed in 'Cognitive Neuroscience Society Annual Meeting Program 2009' (A supplement of the *Journal of Cognitive Neuroscience*) p. 71 (B46)
8. **Min BK**, Han KJ, Min JH, Kim JH, Park HJ, 'Frontal N270 and decision making on a social contextual task' The 11<sup>th</sup> Conference of *Korean Society for Human Brain Mapping*, Seoul, Korea, Nov 2008
  9. Park BH, **Min BK**, Park HJ, 'Plasticity of neural networks for working memory processing in the congenitally blind' The 11<sup>th</sup> Conference of *Korean Society for Human Brain Mapping*, Seoul, Korea, Nov 2008
  10. **Min BK**, Lee DH, Park SY, Kim JI, Park HJ, 'Prestimulus EEG theta activity reflects prestimulus top-down inhibitory processing' The 11<sup>th</sup> Conference of *Korean Society for Human Brain Mapping*, Seoul, Korea, Nov 2008
  11. Kim JI, **Min BK**, Park HJ, 'Sleep in congenital blind and normal subjects: analyses of spectral power and sLORETA' The 11<sup>th</sup> Conference of *Korean Society for Human Brain Mapping*, Seoul, Korea, Nov 2008
  12. Lee NY, Lee YJ, **Min BK**, Kim JH, Park HJ, 'What happens in your brain when you look at newspaper company logos: An event-related potential study' The 11<sup>th</sup> Conference of *Korean Society for Human Brain Mapping*, Seoul, Korea, Nov 2008
  13. **Min BK**, Park JY, Kim SJ, Park HJ, 'The relationship between prestimulus EEG alpha activity and top-down inhibitory processing in obsessive-compulsive disorder patients' The 38<sup>th</sup> Annual Meeting of *Society for Neuroscience*, Washington, DC, USA, November 2008
  14. Lee DH, Park JY, **Min BK**, Park HJ, 'The difference of EEG gamma oscillation between consonant and dissonant chord' The 38<sup>th</sup> Annual Meeting of *Society for Neuroscience*, Washington, DC, USA, November 2008
  15. **Min BK**, Park HJ, 'EEG alpha and gamma activity in congenitally blind subjects during mental rotation' The 10<sup>th</sup> International Conference on Cognitive Neuroscience, Bodrum, Turkey, September 2008
  16. **Min BK**, Lee JH, Han KJ, 'EEG alpha activity reflects social contextual processing during a color-matching task' The 6<sup>th</sup> International Conference of Cognitive Science, Seoul, Korea, July 2008
  17. **Min BK**, Kim JI, Seo BS, Chun JW, Park HI, Kim JJ, Park HJ, 'Involvement of the visual association cortex in congenitally blind subjects during mental imagery' The 6<sup>th</sup> International Conference of Cognitive Science, Seoul, Korea, July 2008
  18. **Min BK**, Kim JJ, Park HJ, 'Prestimulus EEG alpha activity reflects temporal expectancy' The 15<sup>th</sup> Annual Meeting of *Cognitive Neuroscience Society*, San Francisco, USA, April 2008; Printed in 'Cognitive Neuroscience Society Annual Meeting Program 2008' (A supplement of the *Journal of Cognitive Neuroscience*) p. 48 (A110)
  19. **Min BK**, Kim JI, Kim JJ, Park HJ, 'Expectation in prestimulus EEG alpha activity' The 9<sup>th</sup> Conference of *Korean Society for Human Brain Mapping*, Seoul, Korea, Nov 2007; Printed in 'The Autumn Conference of Korean Society for Human Brain Mapping' p. 37
  20. **Min BK**, Busch NA, Debener S, Engel AK, Herrmann CS, 'Evoked Visual Alpha activity reflects Cognitive processing' The 11<sup>th</sup> Annual Meeting of *Cognitive Neuroscience Society*, San Francisco, USA, April 2004; Printed in 'Cognitive Neuroscience Society Annual Meeting Program 2004' (A supplement of the *Journal of Cognitive Neuroscience*) p. 81 (B141)
  21. **Min BK**, Busch NA, Debener S, Engel AK, Herrmann CS, 'Differentiating Evoked and Induced Visual Alpha activity by Exogenous parameters' The 14<sup>th</sup> *Evoked Potentials International Conference (EPIC XIV)*, University of Leipzig, Germany, March 2004; Printed in 'Evoked Potentials International Conference XIV: Leipzig Series in Cognitive Sciences 5' (A. Widmann et al., eds) p. 110 *Leipziger Universitätsverlag*
  22. **Min BK**, Kim MS, Youn T, Kim JJ, Kwon JS, 'Event-Related Potentials of a Linguistic Binding Process in a Korean Monosyllabic Word' The 32<sup>nd</sup> Annual Meeting of *Society for Neuroscience*, Orlando, USA, November 2002; Published at online *2002 Abstract Viewer/Itinerary Planner*. Program No. 279.7. Washington, DC: Society for Neuroscience
  23. **Min BK**, Kim MS, Youn T, Kim JJ, Kwon JS, 'Event-Related Potentials of a Monosyllabic Word' The 16<sup>th</sup> Annual Conference of *The Korean Society for Cognitive Science*, Busan, Korea, May 2002;

Printed in 'Proceedings of the Korean Society for Cognitive Science Conference', May 2002, pp. 211-215

24. **Min BK**, Park HJ, Kang DH, Youn T, Kim MS, Kwon JS, 'Time-frequency analysis of 40Hz in oddball paradigm in schizophrenia: Preliminary study' The 44<sup>th</sup> Annual conference of *Korean Neuropsychiatric Association*, Seoul, Korea, October 2001

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### Academic Affiliations

2009-present	Korean Psychological Association
2007-present	Korean Society for Human Brain Mapping
2003-present	Association for the Scientific Study of Consciousness
2002-present	Korean Brain Society
2002-present	Society for Neuroscience
2001-present	Cognitive Neuroscience Society
2001-present	Korean Society for Cognitive Science
1996-present	American Association for the Advancement of Science

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### Honors, Scholarships and Fellowships

2011 Feb	Being listed for inclusion in 'Marquis <i>Who's Who</i> in America 2012 (66 <sup>th</sup> Edition)'
2010 Nov	Honored as Gerald J. Friedman Fellow, Friedman Diabetes Institute, Beth Israel Medical Center, New York, USA
2007 Nov	Award in oral presentation, The 9th Conference of <i>Korean Society for Human Brain Mapping</i>
2007 Jul	Magna-cum-laude Graduation (Magdeburg University, Germany)
2002 Jul	DAAD-KOSEF Scholarship (Summer Institute Program) DAAD (Deutscher Akademischer Austausch Dienst) and KOSEF (Korea Science and Engineering Foundation) Joint-Program
2000 Dec	Award at the Korea Digital Contents Contest, SoftExpo 2000 Ministry of Information and Communication, Korea
1993 Sep	Superior Scholarship (Seoul National University, Korea)

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### Invited talks

2012 March	The 1 <sup>st</sup> meeting of the Korean Society of Brain Engineering, DaeJong, Korea
2012 February	National Research Foundation, DaeJong, Korea A periodic meeting of the Cognitive Convergence Engineering
2012 February	Chonnam National University, GwangJu, Korea Department of Psychology (Prof. Tae-Jin Park)
2012 February	SungKyunKwan University, Seoul, Korea Department of Interaction Science (Prof. Kwang-Soo Cho)
2012 February	Yonsei University, College of Medicine, Seoul, Korea Department of Psychiatry (Prof. Suk-Kyoon An)
2012 February	Hallym University College of Medicine, Chunchun, Korea Department of Physiology (Prof. Hyung-Cheul Shin)
2011 December	Korea University, Seoul, Korea Department of Psychology (Prof. Hyun-Taek Kim)
2011 December	Citizen forum for the evaluation of the effect of future science & technology Korea Institute of Science & Technology Evaluation and Planning, Seoul, Korea
2011 December	Yonsei University, College of Medicine, Seoul, Korea

Department of Pharmacology (Prof. Dong-Goo Kim)  
 2011 December The Annual conference of the Korean Society of Stress Medicine, Seoul, Korea  
 (invited as a guest speaker)  
 2011 November The Korean Society for Neuro-Humanities  
 2011 November The 30<sup>th</sup> Annual conference of Acoustical Society of Korea, Daejeon, Korea  
 (invited as a guest speaker)  
 2011 August Brain and Cognition Measurement Lab (Dr. Yong-Ho Lee)  
 Korea Research Institute of Standards and Science, Daejeon, Korea  
 2011 July EPS International Congress on Radiology and Nuclear Medicine, Nanjing, China  
 (invited as a guest speaker: declined)  
 2011 March Special Seminar, Martinos Center, Massachusetts General Hospital, Harvard Medical  
 School, Boston, USA  
 2011 June International Conference and Exhibition on Proteomics & Bioinformatics,  
 Hyderabad, India (invited as a guest speaker: declined)  
 2011 May BIT Life Sciences' 2nd Annual Congress of NeuroTalk (NeuroTalk-2011), Dalian  
 World EXPO Center, China (invited as a guest speaker: declined)  
 2010 June The 2010 Annual Meeting of Radiology and Nuclear Medicine of China, Yichang,  
 China (invited as a guest speaker: declined)  
 2009 September Korea Institute of Science and Technology, Seoul, Korea  
 Center for Neural Science (Dr. Ji-Hyun Choi)  
 2009 September SungKyunKwan University, Seoul, Korea  
 Class: Language and Mind (Prof. Myung-Won Choi)  
 2009 July Korea Computer Congress 2009, Jeju, Korea  
 Intelligence-Language-Vision-Bio association workshop  
 Korea Information Science Society  
 2009 June Hankuk University of Foreign Studies, Seoul, Korea  
 Linguistics and Cognitive Science (Prof. Jong Sup Chun)  
 2009 Apr Korea University, Seoul, Korea  
 Department of Psychology (Prof. Chai-Youn Kim)  
 Cognitive Neuroscience Colloquium  
 2008 Dec Hankuk University of Foreign Studies, Seoul, Korea  
 Linguistics and Cognitive Science (Prof. Jong Sup Chun)  
 2008 Dec Workshop #2: 'Oscillations in Human Electrophysiology'  
 The 11th Annual Meeting of *The Korean Society for Brain and Neural Science*,  
 Seoul, Korea  
 2008 Aug Brain and Cognition Measurement Lab (Dr. Yong-Ho Lee)  
 Korea Research Institute of Standards and Science, Daejeon, Korea  
 2008 May National Institute of Scientific Investigation, Seoul, Korea  
 2008 May Yonsei University, Seoul, Korea  
 Graduate program in Cognitive Science (Prof. Sang Chul Chong)  
 2008 Apr Yonsei University, Seoul, Korea  
 Department of Communication  
 Human Communication Lab. (Prof. Joochan Kim)  
 2008 Mar Seoul National University, Korea  
 Institute for Cognitive Science (Prof. Kyung-Min Lee)  
 2008 Jan 2007/2008 Winter workshop (Sogang University) of Korean Students Association of  
 Cognitive Science  
 2007 Nov Yonsei University, College of Medicine, Seoul, Korea  
 Department of Pharmacology (Prof. Dong-Goo Kim)  
 2007 Oct Ewha womans University, Korea  
 Department of Life Science  
 Behavior and Ecology Lab. (Prof. Jae-Chun Choi)

2007 Oct Seoul National University Hospital, Korea  
MEG Center (Prof. Chun-Kee Chung)

2007 Sep Seoul National University Hospital, Korea  
Clinical Cognitive Neuroscience Center (Prof. Jun-Soo Kwon)

2007 Sep Yonsei University, College of Medicine, Seoul, Korea  
Research Institute of Radiological Science  
Molecular Neuroimaging Technology Lab. (Prof. Hae-Jung Park)

2002 Jun Sogang University, Seoul, Korea  
Language Lab. (Prof. Sook-Hwan Cho)

1999 Apr Korea Advanced Institute of Science & Technology, DaeJong, Korea  
Brain Lab. (Prof. Soo-Yong Kim)

1999 Apr Seoul National University, Korea  
Institute for Molecular Biology and Genetics  
Molecular Neurobiology Lab. (Prof. Bong-Kiun Kaang)

1998 Jun Northwestern Medical School, Chicago, IL, USA  
Melatonin Receptor Lab. (Prof. Margarita Dubocovich)

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