

CURRICULUM VITAE

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Bernard J. Baars, PhD

Recipient of the 2019 Hermann von Helmholtz *Life Contribution Award*, Dr. Bernard J. Baars is best known as the originator of the Global Workspace Theory (GWT) and *Global Workspace Dynamics*, a theory of human cognitive architecture, cortical function, and consciousness. GWT is widely applied as a theoretical framework for the role of conscious and unconscious events in the functioning of the brain. GWT comprises a set of readily testable, explicit assumptions, many of which have been shown to be robust over the past two decades.

Decades of contributions include co-founding the Association for the Scientific Study of Consciousness (ASSC) and the Society for MindBrain Sciences; Baars served as founding President for both entities. Co-founder of the Academic Press journal *Consciousness & Cognition: An International Journal*, where he served as co-editor with William P. Banks for more than fifteen years. Currently, he serves on the Editorial Board for the journal *Psyche* (ASSC). Baars has published hundreds of scientific papers, chapters, essays, and articles in high impact scientific journals, garnering over 20,000 citations to date.

HONORS & AWARDS

Recipient of the 2019 Hermann von Helmholtz *Life Contribution Award* given by the International Neural Network Society for outstanding achievements in perception. Life Contribution awards recognize outstanding individuals whose lifetime scientific contributions to the field of neural networks have proven to be enduring and paradigm changing.

2019 Textbook Excellence Award given to *Fundamentals of Cognitive Neuroscience: A Beginner's Guide, 2nd ed.* (Nicole Gage and Bernard Baars, Academic Press) by the Textbook & Academic Authors Association (TAA), which recognizes excellence in current textbooks and learning materials.

2013 Most Promising New Textbook Award in the life sciences given to *Fundamentals of Cognitive Neuroscience: A Beginner's Guide, 1st ed.* (Bernard Baars & Nicole Gage, Academic Press) by the Text and Academic Authors Association (TAA), an award that recognizes excellence in first-year edition textbooks and learning materials.

FELLOWSHIPS

Senior Fellow in Theoretical Neurobiology at The Neurosciences Institute in La Jolla, CA.

EDUCATION

University of California, Los Angeles <i>Bachelor of Science in Psychology</i>	1970
University of California, Los Angeles <i>Ph.D in Cognitive Psychology</i>	1977

PROFESSIONAL EXPERIENCE

2019	Published compendium 1988-2013 <i>On Consciousness: Science & Subjectivity - Updated Works on GWT</i>
2018	Editor/author (with N. Gage) <i>Fundamentals of Cognitive Neuroscience, 2nd Edition</i>
2014	Commissioned by Oxford University Press for manuscript detailing breakthroughs in neurobiology
2012	Affiliate Research Fellow The Krasnow Institute for Advanced Studies, George Mason University President and co-Founder, Society for MindBrain Sciences Topic Editor on consciousness, Scholarpedia of Cognitive Neuroscience: A Beginner's Introduction

2009 Editor/author (with N. Gage): *Cognition, Brain & Consciousness: Introduction to Cognitive Neuroscience*
 2007 Editor/author (with N. Gage) *Cognition, Brain & Consciousness: Introduction to Cognitive Neuroscience*
 2003 Affiliated Research Fellow, The Neurosciences Institute San Diego, California
 2003 Adjunct Professor, Institute for Intelligent Systems University of Memphis
 2000-2 Senior Fellow in Theoretical Neurobiology, The Neurosciences Institute, San Diego, California
 2002 Founding Editor, Science and Consciousness Review
 1999 Visiting Fellow, The Neurosciences Institute
 1998 Board member, Society for Philosophy and Psychology
 1994-6 Founding President, Association for Scientific Study of Consciousness (ASSC)
 1989 Founding Co-Editor, *Consciousness & Cognition: An International Journal*
 1986-90 Institute Faculty Professor, The Wright Institute, Berkeley, California.
 1985-6 Visiting Scientist, John D. and Catherine T. MacArthur Foundation Program
 1977 Assistant Professor of Psychology, SUNY Stony Brook
 1979-80 Alfred P. Sloan Cognitive Science Scholar, UCSD

EDITORIAL BOARD MEMBER (*a sampling*)

- Co-Editor and co-founder: *Consciousness & Cognition: An International Journal*. (Elsevier/Academic Press)
- Co-Editor and Founder: *Science and Consciousness Review*
- *Frontiers in Psychology: Consciousness*
- Topic Editor: *Scholarpedia*
- *International Journal for Machine Consciousness*
- Editor-in-Chief, Society Publications, Society for MindBrain Sciences
- *Journal of Psycholinguistic Research*
- *Psyche: An Interdisciplinary Journal of Consciousness Research*
- *Journal of Consciousness Studies* (United Kingdom)
- *Brain and Consciousness* (Kluwer)

BOOKS

- *On Consciousness: Science & Subjectivity - Updated Works on Global Workspace Theory* (Nautilus Press, 2019)
- *Fundamentals of Cognitive Neuroscience: A Beginner's Guide*, 2nd Ed, N Gage & B Baars (Academic Press, 2018)
- *Fundamentals of Cognitive Neuroscience: A Beginner's Guide*, 1st Ed, B Baars & N. Gage (Elsevier/Academic Press, 2012)
- *Cognition, Brain and Consciousness: An Introduction to Cognitive Neuroscience*, Bernard Baars & N. Gage (2nd Edition). (Elsevier/Academic Press, 2010)
- *Cognition, Brain and Consciousness: An Introduction to Cognitive Neuroscience*, Bernard Baars & N. Gage (1st Edition). (Elsevier/Academic Press, 2007)
- *Essential Sources in the Scientific Study of Consciousness*, Editors BJ Baars, WP Banks, JB Newman (MIT, 2003)
- *In the Theater of Consciousness: The Workspace of the Mind* (Oxford University Press, 1997)
- *The Experimental Psychology of Human Error: Implications for the architecture of voluntary control* (Plenum Press, Series on Cognition and Language, 1992)
- *A Cognitive Theory of Consciousness* (Cambridge University Press, 1988)
- *The Cognitive Revolution in Psychology* (Guilford Press, 1986)

PEER-REVIEWED ARTICLES & CITATIONS

Baars has published hundreds of scientific papers, chapters, essays, and articles in high impact scientific journals, garnering over 20,000 citations to date [[PubMed](#) [GoogleScholar](#)]. A sampling:

Global Workspace Dynamics: cortical "binding and propagation" enables conscious contents. Bernard J. Baars, Stan Franklin, and Thomas Zoega Ramsoy. *Frontiers in Psychology*, May 2013.

Consciousness in humans and non-human animals: Recent advances and future directions. Boly, M., Seth, A. K., Wilke, M., Ingmundson, P., Baars, B., Laureys, S., Edelmans, D. B., and Tsuchiya, N. (2013). *Frontiers in Psychology*, 4, article 625.

Baars, Bernard. "A Scientific Approach to Silent Consciousness." *Frontiers in Psychology* 4 (2013): 678.

<https://doi.org/10.3389/fpsyg.2013.00678>.

Biology of Consciousness. Gerald Edelman, Joseph A. Gally, and Bernard J. Baars. *Frontiers in Psychology*, January 2011. The Neurosciences Institute. The Dynamic Core and Global Workspace hypotheses were independently put forward to provide mechanistic and biologically plausible accounts of how brains generate conscious mental content.

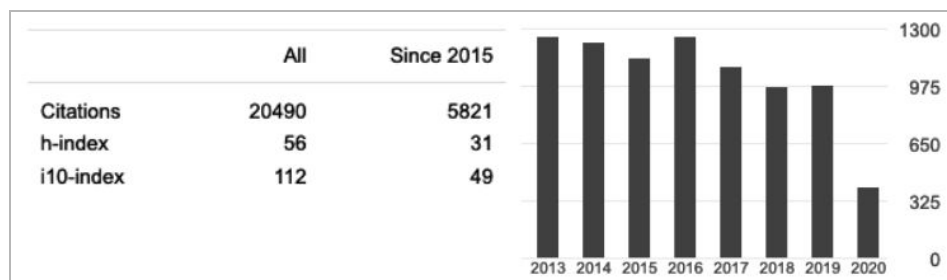
The biological cost of consciousness. Baars, B. (2012) *Nature Precedings*.

Consciousness is computational: The LIDA model of global workspace theory. Baars, B. J., and Franklin, S. (2009). *International Journal of Machine Consciousness*, 1, 23–32.

Global workspace theory of consciousness: Toward a cognitive neuroscience of human experience. Baars, B. J. (2005a). *Progress in Brain Research*, 150, 45–53.

Baars, B., Ramsøy, T., Laureys, S. (2003). Brain, conscious experience and the observing self. *TRENDS in Neurosciences*, 26 (12), December 2003.

In the theatre of consciousness: Global workspace theory, a rigorous scientific theory of consciousness. Baars, B. J. (1997a). *Journal of Consciousness Studies*, 4, 292–309.



PRESENTATIONS

2019 Invited speaker, conference, Center for Consciousness Studies (Interlaken) "Is Cortex the Organ of Mind?" | Invited speaker, conference, Society for Consciousness Studies (Yale) "Cortex is the Organ of Mind;" "Neural Darwinism & Waking Consciousness" co-presentation with David Edelman (Dartmouth College). | Panel Co-host, Athenaeum, with David Edelman (Dartmouth College), Jay Giedd (UCSD), Jeff Krichmar (UC Irvine) "Conversations on Science & Subjectivity: A Tribute to Nobel Laureate Gerald M. Edelman."

2012 Montreal Summer Institute in Cognitive Sciences, (Turing Consciousness) "The biological basis of consciousness: Global workspace dynamics." Currently on YouTube | Samoset Conference (Maine), Co-presentation with Anil Seth (University of Sussex), Consciousness: Theory and Cognition | "The Feeling Brain - Understanding Neurobiology of Emotion" CME Series | The Neurosciences Institute, San Diego, 50th Anniversary Celebration of the founding of the Neurosciences Research Program. Attending G.M. Edelman, J. Fuster, L.R. Squire, U. Bellugi, M. Mersénich.

2011 Invited speaker, preconference, Society for Personality and Social Psychology | Stanford University presentation, "Global workspace neurodynamics for conscious vision." Center for Experimental Philosophy, Prof Paul Skokowski

1992 British Psychological Society | CIBA Foundation Symposium on Experimental and Theoretical Approaches to Consciousness, London, UK | Human Learning Center, University of Minnesota, Minneapolis

1994 Plenary Lecture, Association for the Scientific Study of Consciousness, (Claremont, Calif.)

1997 External Doctoral Examiner, University of Turku (Finland)

1998 European Society for Neuroscience, Strasbourg, France | Marcus Orr Distinguished Speaker, University of Memphis | Pavlov Society, University of Maryland

1999 United Nations University, Tokyo, Japan | Irish Cognitive Science Society, Dublin, Ireland | Saybrook Graduate Program, Santa Rosa, CA

2000 University Foundation for Animal Welfare, London | Darwin Club, University of California, Berkeley | Southern Conference on Animal Welfare, San Antonio, TX

2001 Neurosciences Research Program meeting, San Diego | Cold Spring Harbor conference on consciousness | University of Memphis Workshop on Consciousness | Karolinska Institute, Stockholm | Agora for Biosystems, Sigtuna, Sweden | Aarhus University, Denmark | University College London, UK

2002 Salk Institute for Biological Science | Congres de Biologie et Conscience, Paris

2003 Canadian Anesthesiology Society, Ottawa | Experimental Philosophy Gr, UCSD | Exystence Workshop, Turin, Italy

1984 Center for Advanced Studies in the Behavioral Sciences in Stanford, California