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CURRICULUM VITAE

PERSONAL:

Nancy J. Nersessian
Regents' Professor &
Professor of Cognitive Science
School of Interactive Computing
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EDUCATION: Case Western Reserve University: Ph.D., Philosophy 1977; M.A., Philosophy 1974; Boston University: A.B., Physics and Philosophy (with distinction in Logic) 1969

ACADEMIC APPOINTMENTS

Georgia Institute of Technology, Professor of Cognitive Science, 1993-present

Regents' Professor, 2007-present

Professor, School of Interactive Computing and School of Public Policy

Adjunct Professor, School of Literature, Communication, & Culture

Adjunct Professor, College of Architecture

Director, Program in Cognitive Science, 1994-1999, 2003-2005

Member: Program in Philosophy, Science, & Technology
Program in Women, Science, & Technology

Princeton University, Program in History of Science and Department of History, Assistant Professor, 1987-1993

Associate Member, Department of Philosophy, 1987-1993

Member: Program in Cognitive Studies, 1992-1993
Cognitive Studies Committee, 1987-1992

N.J. Nersessian

University of Pittsburgh, Learning Research and Development Center, Research Associate, 1986-1987

Twente University of Technology, The Netherlands, History and Philosophy of Science Unit, Associate Professor, 1982-1985

Towson State University, Department of Philosophy, Assistant Professor, 1977-1983

PUBLICATIONS

Books

Nersessian, N.J.: *Creating Scientific Concepts* (MIT Press 2008; paperback edition 2010) (awarded Patrick Suppes Prize in Philosophy of Science, 2011)

Osbeck, L., Nersessian, N.J., Malone, K., & Newstetter, W. (co-authors): *Science as Psychology: Sense-making and Identity in Science Practice* (Cambridge University Press, 2011; paperback edition, 2012)

Nersessian, N.J.: *Faraday to Einstein: Constructing Meaning in Scientific Theories* (Dordrecht: Martinus Nijhoff Publishers, 1984; Kluwer Academic Publishers, reprinted 1990) **Chinese Translation** with extended introduction (Beijing: Zhejaing Science & Technology Press, 1995)

Nersessian, N.J.(ed.): *Selected Works of H. A. Lorentz* (Nieuwekerk a/d Ijssel: Palm Publications, 1987)

Nersessian, N.J.(ed.): *The Process of Science: Contemporary Philosophical Approaches to Understanding Scientific Practice* (Dordrecht: Kluwer Academic Publishers, 1987)

Nersessian, N.J. & Cohen, H.F. (translators & eds.): *On the Theory of the Reflection and Refraction of Light* by H.A. Lorentz (Amsterdam: Rodopi, 1997)

Kokinov, B, Karmiloff-Smith, A. & Nersessian, N.J. (eds.): *European Perspectives on Cognitive Science, Proceedings of the European Conference on Cognitive Science: EuroCogsci 2011*. NBU Series in Cognitive Science, Sofia: NBU Press, 2011)

Magnani, L., Nersessian, N.J., & Pizzi, C. (eds.): *Logical and Computational Aspects of Model-Based Reasoning*, Applied Logic Series (Dordrecht: Kluwer, 2002)

Magnani, L. & Nersessian, N.J. (eds.): *Model-Based Reasoning: Science, Technology, Values* (NY: Kluwer/Plenum, 2002)

N.J. Nersessian

Magnani, L., Nersessian, N.J., & Thagard, P. (eds.): *Model-Based Reasoning in Scientific Discovery* (NY: Plenum, 1999)

Chinese Translation (Beijing: Beijing Science & Technology Press, 2001)

Edited Journal Issues

Guest Editor (with A. Ram & F. Keil), *Journal of the Learning Sciences*, special issue on Conceptual Change, 6:1, 1997

Guest Editor, *Configurations*, special issue on Thomas S. Kuhn, 1998

Guest Editor (with L. Magnani & P. Thagard), *Philosophica*, special issue on Abduction in Scientific Discovery, 61:1, 1998

Guest Editor (with L. Magnani & P. Thagard), *Philosophica*, special issue on Analogy and Mental Modeling in Scientific Discovery, 61:2, 1998

Guest Editor (with L. Magnani & P. Thagard), *Foundations of Science*, special issue on Model-based Reasoning: Learning and Science, 5:2, 2000

Guest Editor (with L. Magnani) *Mind and Society*, special issue on *Commonsense and Scientific Reasoning*, 4:2, 2001

Guest Editor (with L. Magnani) *Mind and Society*, special issue on Scientific Discovery: Visual, Analogical, and Simulative Modeling, 5:1, 2002

Guest Editor (with L. Magnani) *Foundations of Science*, special issue on Abduction in Science, 9:3, 2004

Guest Editor (with L. Magnani) *Foundations of Science*, special issue on Scientific Discovery: Visual, Analogical, and Simulative Modeling 10:2, 2005

Guest Editor (with M. Hoffmann & J. Schmidt) *Synthese*, special issue on Philosophy of Interdisciplinarity, in process

Articles

Nersessian, N.J.: "Modeling practices in conceptual innovation: An ethnographic study of a neural engineering research laboratory," in *Scientific Concepts and Investigative Practice*, U. Feest & F. Steinle, eds. (Berlin: DeGruyter, forthcoming).

N.J. Nersessian

-----: “Conceptual change: Creativity, cognition, and culture,” in *Models of Discovery and Creativity*, J. Meheus and T. Nickles, eds. (NY: Springer, 2010) pp.127-158

-----: “How do engineering scientists think? Model-based simulation in biomedical engineering research laboratories,” *TopiCS: Topics in Cognitive Science*, 1:730-757, 2009 (selected for article level publicity by Wiley)

-----: “Mental modeling in conceptual change,” in *International Handbook of Conceptual Change*, S. Vosniadou, ed. (London: Routledge, 2008, pp. 391-416)

Reprinted in *The International Journal on Humanistic Ideology*, Special Issue: Knowledge and Cognitive Science, 3:11-48, 2010

Revised version in *International Handbook of Conceptual Change*, Second Edition (in press)

-----: “How Science works: Model-based reasoning in scientific practice,” in *Teaching Scientific Inquiry: Recommendations for Research and Implementation*, R. A. Duschl & R. E. Grandy, eds. (Rotterdam: Sense Publishers, 2008, pp. 57-79)

-----: “Model-based reasoning in distributed cognitive systems,” *Philosophy of Science*, 73:699-709, 2006

Reprinted in *Theoretical Psychology - Contemporary Readings*, ed. H. Stam (Sage Publications, 2011)

-----: “The cognitive-cultural systems of the research laboratory,” *Organization Studies*, 27:125-145, 2006

-----: “Interpreting scientific and engineering practices: Integrating the cognitive, social, and cultural dimensions,” in *Scientific and Technological Thinking*, M. Gorman, R. Tweney, & D. Gooding, eds. (Hillsdale, N.J.: Lawrence Erlbaum, 2005), pp.17-56

-----: “Kuhn, conceptual change, and cognitive science” in *Thomas Kuhn*, T. Nickles, ed. *Contemporary Philosophy in Focus Series*, (Cambridge University Press, 2002), pp. 178-211

-----: “Maxwell and ‘the method of physical analogy’: Model-based reasoning, generic abstraction, and conceptual change,” in *Reading Natural Philosophy: Essays in the History and Philosophy of Science and Mathematics*, D. Malament ed. (LaSalle, IL: Open Court, 2002), pp. 129-166

-----: “The cognitive basis of model-based reasoning in science,” in *The Cognitive Basis of Science*, P. Carruthers, S. Stich, & M. Siegal, eds. (Cambridge: Cambridge University Press, 2002), pp.133-153

Chinese translation in *Cognitive Studies of Science and Reasoning*, L. Ping and X. Chen, eds. (Jiang Xi People’s Press, 2004), pp. 351-378

N.J. Nersessian

-----: "Abstraction via generic modeling in concept formation in science," *Mind and Society* 5: 129-154, 2002.

Reprinted in *Correcting the Model: Idealization and Abstraction in the Sciences*, M. Jones and N. Cartwright, eds. (Amsterdam: Rodopi, 2005)

-----: "Inconsistency, generic modeling, and conceptual change in science," in *Inconsistency in Science*, J. Meheus, ed. (Dordrecht: Kluwer, 2002), pp. 197-212

-----: "Conceptual change and commensurability," in *Incommensurability and Related Matters*, H. Sankey & P. Hoyningen-Huene, (Dordrecht: Kluwer, 2001), pp. 275-301

-----: "Model-based reasoning in conceptual change," in *Model-Based Reasoning in Scientific Discovery*, L. Magnani, N. J. Nersessian, and P. Thagard (NY: Plenum, 1999), pp. 5-22

-----: "Kuhn and the cognitive revolution," *Configurations* 6: 87-120, 1998

-----: "Conceptual change," in *A Companion to Cognitive Science*, W. Bechtel & G. Graham, eds. (Oxford: Blackwell, 1998), pp. 157-166

Chinese translation in *Cognitive Studies of Science and Reasoning*, L. Ping and X. Chen, eds. (Jiang Xi People's Press, 2004), pp. 246-263

-----: "Modeling practices in conceptual change in science," in *Cognition and Imagination*, T. Borsche, J. Kreuzer, & C. Strub, eds. (Munich: Fink Verlag, 1998), pp. 149-168

-----: "Child's play," *Philosophy of Science* 63:542-546, 1996

-----: "Opening the black box: Cognitive science and history of science" in *Constructing Knowledge in the History of Science*, A. Thackray, ed., *Osiris* 10: 194-211, 1995.

Revised and abbreviated version of "The cognitive sciences and the history of science," *Conference on Critical Problems and Research Frontiers in History of Science and Technology* (Madison, WI: HSS/SHOT), pp. 92-115

Chinese translation in *Studies in the Dialectics of Nature*, 12:11, 1996

-----: "Should physicists preach what they practice? Constructive modeling in doing and learning physics," *Science & Education* 4:203-226, 1995

Reprinted in *Thinking Science for Teaching*, C. Bernardini, C. Tarsitani, & M. Vincentini, eds. (NY: Plenum, 1996), pp. 77-96

-----: "In the theoretician's laboratory: Thought experimenting as mental modeling," *PSA* 1992, Volume 2, D. Hull, M. Forbes, & K. Okruhlik, eds. (East Lansing, MI: PSA, 1993), pp. 291-301

Reprinted in *Philosophy and the Many Faces of Science*, D. Anapolitanos, A. Baltas, & S.

N.J. Nersessian

Tsinorema, eds. (NY: Rowman and Littlefield, 1998), pp. 260-272

Spanish Translation in *Trabajando en el laboratorio de la mente: naturaleza, alcance y limitaciones de los experimentos mentales* (Working on the Laboratory of Mind: nature, scope and limits of Thought Experiments (Mexico City: Universidad Autónoma Metropolitana, forthcoming)

-----: "How do scientists think? Capturing the dynamics of conceptual change in science," in *Cognitive Models of Science*, R. Giere, ed., *Minnesota Studies in the Philosophy of Science 15* (Minneapolis: University of Minnesota Press, 1992) pp. 3-45

Chinese translation in (modified version) *Journal of Philosophy of Nature, Science, and Technology 2*, Special Issue: Studies in Dialectics of Nature, 1993

Reprinted in *Diagrammatic Reasoning: Computational and Cognitive Perspectives*, B. Chandrasekaran, J. Glashow, & H. Narayanan, eds. (AAAI/MIT Press, 1995), PP. 137-182

-----: "Constructing and instructing: The role of 'abstraction techniques' in developing and teaching scientific theories," in *Philosophy of Science, Cognitive Science, & Educational Theory and Practice*, R. Duschl & R. Hamilton, eds. (Albany, NY: SUNY Press, 1992), pp. 48-68

Greek translation in *Representations of the Natural World: A Cognitive, Epistemological, and Didactical Approach*, V. Koulaidis, ed. (Athens: Gutenberg, 1994)

-----: "Discussion: The method to 'meaning': A reply to Leplin," *Philosophy of Science 58*: 678-687, 1991

-----: "Why do thought experiments work?" *Proceedings of the Cognitive Science Society 13* (Hillsdale, NJ: Lawrence Erlbaum, 1991), pp. 430-438

-----: "Barriers and Models: Comments on Margolis and Giere," *PSA 1990*, Volume 2, A. Fine, M. Forbes, & L. Wessels, eds. (East Lansing, MI: PSA, 1991) pp. 441-444

-----: "Methods of conceptual change in science: Imagistic and analogical reasoning," *Philosophica*, Special Issue: Scientific Discovery, 45:33-52, 1990

-----: "Hendrik Antoon Lorentz," in *Great Lives from History Twentieth Century*, F. N. Magill, ed. (Pasadena, CA: Salem Press, 1990) pp. 1355-1359

N.J. Nersessian

-----: "Conceptual change in science and in science education," *Synthese*, Special Issue: Philosophy of Science and Science Education, 80:163-84, 1989.

Reprinted in *History, Philosophy & Science Teaching: Selected Readings*, M. Matthews, ed. (NY: Columbia Teachers College Press, 1991) pp. 133-148

Reprinted in *The Implications of History of Science for Science Education, Newsletter of the Greek Society for History of Science and Technology, March 1991, pp. 26-46*

-----: "Scientific discovery and commensurability of meaning," in *Imre Lakatos & theories of Scientific Change*, K. Gavroglu, G. Goudaroulis, and P. Nicolacopoulos, eds. (Dordrecht: Kluwer Academic Publishers, 1989), pp. 323-334

-----: "H. A. Lorentz," *The Nobel Prize Winners: Physics* (Pasadena, CA.: Salem Press, 1989), pp. 35-42

-----: "Reasoning from imagery and analogy in scientific concept formation," *PSA 1988*, A. Fine & J. Leplin, eds. (East Lansing, MI: PSA, 1989), pp. 41-47

-----: "*Ad hoc* is not a four-letter word: H.A. Lorentz and the Michelson - Morley experiment," in *The Michelson Era in American Science*, S. Goldberg and R. Stuewer, eds. (New York: AIP, 1988), pp. 71-77

-----: "A cognitive-historical approach to meaning in scientific theories," in *The Process of Science*, pp. 161-179, 1987

-----: "Why wasn't Lorentz Einstein? An examination of the scientific method of H.A. Lorentz," *Centaurus* 29: 205-242, 1986

-----: "Faraday's field concept," in *Faraday Rediscovered: Essays on the Life & Work of Michael Faraday*, D.C. Gooding and F.A.J.L. James, eds. (London: Macmillan, 1985), pp. 377-406

-----: "Constructing scientific concepts," *Methodology & Science*, 18: 292-306, 1985

Italian translation (revised version) "Construire concetti," *Materiali Filosofici*, Special Issue: Intelligibility and Construction of Science 12: 84-96, 1985

N.J. Nersessian

-----: "On meaning in scientific theories," *Proceedings Nederlandse Filosofiedag*, 1984, pp.141-147

-----: "Aether/or: The creation of scientific concepts," *Studies in the History & Philosophy of Science* 15: 175-212, 1984

-----: "How are scientific concepts formed?" *Abstracts of the 7th International Congress of Logic, Methodology & Philosophy of Science* 6: 153-156, 1984

-----: "Why is 'incommensurability' a problem?" *Acta Biotheoretica* 31: 205-218, 1982

-----: "The roots of epistemological 'anarchy'," *Inquiry* 22: 423-440, 1979

Co-authored Articles

Dogan, F. & Nersessian, N.J.: "Conceptual diagrams in creative architectural practice: the case of Daniel Libeskind's Jewish Museum," *Architectural Research Quarterly* (in press).

Chandrasekharan, S., Nersessian, N.J., & Subramanian, V.: "Computational modeling: Is this the end of thought experiments in science?" In J. Brown, M. Frappier, & L. Meynell, eds. *Thought Experiments in Philosophy, Science and the Arts*. (London: Routledge, in press)

Osbeck, L. & Nersessian, N.J.: "The acting person in science studies." In R. Proctor and J. Capaldi (Eds), *Psychology of science: Implicit and explicit processes*. (NY: Oxford University Press, in press).

Shah, H., Nersessian, N.J., & Harrold, M.J.: "Studying the influence of culture in global software engineering: Thinking in terms of cultural models," *Proceedings of the 4th ACM International Conference on Intercultural Collaboration* (New York: ACM, Inc. 2012, in press).

Wu, A., Caspary, E., Yim, J., Mazalek, A., Chandrasekharan, S. & Nersessian, N.J.: "Kinesthetic Pathways: A tabletop visualization to support discovery in systems biology," *Proceedings of the 8th ACM Conference on : Creativity & Cognition* (New York: ACM, Inc. 2011).

N.J. Nersessian

Chandrasekharan, S. & Nersessian, N.J.: "Building cognition: The construction of external representations for discovery." *Proceedings of the Cognitive Science Society* 33, 2011

Newstetter, W. & Nersessian, N.J.: "Unpacking the interdisciplinary mind: Implications for teaching and learning." *Proceedings of 41st ASEE/IEEE Frontiers in Education Conference*, 2011

Osbeck, L. & Nersessian, N.J.: "Forms of positioning in interdisciplinary science practice and their epistemic effects," *The Journal for the Theory of Social Behaviour*, 40:136-161, 2010.

Osbeck, L. & Nersessian, N.J.: "Affective problem solving: Emotion in research practice," *Mind and Society*, 6/2010 (on-line); 10:57-78, 2011 (print).

Newstetter, W., Behraves, E., Nersessian, N.J., Fasse, B.: "Design principles for problem-driven laboratories in biomedical engineering education," *Annals of Biomedical Engineering*, 38:3257-3267, 2010.

Dogan, F. & Nersessian, N.J.: "Generic abstraction in design creativity: the case of the Staatsgalerie by James Stirling," *Design Studies* 31:207-236, 2010.

Nersessian, N.J. & Chandrasekharan, S.: "Hybrid analogies in conceptual innovation in science," *Cognitive Systems Research*, Special issue: Analogies - Integrating Cognitive Abilities, 10:178-188, 2009.

Nersessian, N.J. & Patton, C.: "Model-based reasoning in interdisciplinary engineering" in *Handbook of the Philosophy of Technology and Engineering Sciences*, A. Meijers, ed. (Amsterdam: Elsevier, 2009), pp. 687-718.

Dogan, F. and Nersessian, N.J.: "Generic abstraction in design creativity," *Proceedings of the Cognitive Science Society* 31, 2009

Davies, J., Goel, A., & Nersessian, N.J.: "A computational model of visual analogies in design," *Cognitive Systems Research*, Special issue: Analogies - Integrating Cognitive Abilities, 10:204-215, 2009.

N.J. Nersessian

Liu, Z., Nersessian N.J., & Stasko, J.: "Distributed cognition as a theoretical framework for information visualization," *IEEE Transactions*, Special Issue: Visualization and Computer Graphics, 14: 1173-1180, 2008.

Harmon, E. & Nersessian, N.J.: "Cognitive partnerships on the bench top: designing to support scientific researchers," *Proceedings of the 7th ACM Conference on : Designing Interactive Systems* (New York: ACM, Inc., pp. 119-128, 2008).

Newstetter, W. & Nersessian N.J.: "Crossing the science/engineering divide: Design principles for interdisciplinary learning environments," *Proceedings of the first International Conference on Research in Engineering Education*, 2007.

Osbeck, L., Malone, K., & Nersessian, N.J.: "Dissenters in the sanctuary: Evolving frameworks in 'mainstream' cognitive science," *Theory and Psychology* Special Issue: Reflections on Critical Engagement with Mainstream Psychology 17:243-264, 2007

Osbeck, L. & Nersessian, N.J.: "The distribution of representation," *The Journal for the Theory of Social Behaviour* 36:141-160, 2006

Catrambone, R., Craig, D.L., & Nersessian, N.J.: "The role of perceptually represented structure in analogical problem solving," *Memory and Cognition* 34:1126-1132, 2006

Sun, Y, Newstetter W., & Nersessian, N.J.: "Promoting model-based reasoning in problem-based learning," *Proceedings of the Cognitive Science Society* 28, 2006

Malone, K., Nersessian, N.J., & Newstetter, W.: "Gender writ small: Gender enactments in organization and knowledge transmission in a biomedical engineering laboratory," *Journal of Women and Minorities in Science and Engineering* 11: 61-82, 2005

Dogan, F. & Nersessian, N.J.: "Design problem solving with conceptual diagrams," *Proceedings of the Cognitive Science Society* 27:600-605, 2005

Davies, J., Nersessian, N.J., & Goel, A. K.: "Visual models in analogical problem solving," *Foundations of Science*, 10:133-152, 2005

N.J. Nersessian

Nersessian, N.J., Kurz-Milcke, E., & Davies, J.: "Ubiquitous computing in science and engineering research laboratories: A case study from biomedical engineering," in *In-Use Knowledge*, G. Kouzelis, M. Pournari, M. Stšppler and V. Tselfes.G. Kuzoulis, eds. (Berlin: Peter Lang AK, 2005, pp. 167-195).

Greek Translation in Topika 10:203-237, 2005

Davies, J., Goel, A. K. & Nersessian, N. J.: "Transfer of problem-solving strategy using Cognitive Visual Language," *Proceedings of the Workshop on Visual Languages and Computing (VLC05)*, 2005

Davies, J., Goel, A. K., & Nersessian, N. J.: "A cognitive model of visual analogical problem-solving transfer," *Proceedings of the Nineteenth Annual International Joint Conference on Artificial Intelligence* (short paper), 2005

Davies, J., Goel, A. K. & Nersessian, N. J.: "Transfer in visual case-based problem-solving. In H. Munoz-Avila & F. Ricci (Eds.), *Proceedings of the 6th International Conference on Case-Based Reasoning* (Berlin: Springer-Verlag, 2005, pp. 163-176)

Kurz-Milcke, E., Nersessian, N.J., & Newstetter, W.: "What has history to do with cognition? Interactive methods for studying research laboratories," *Journal of Cognition and Culture*, Special issue: Cognitive Anthropology of Science 4:663-700, 2004

Newstetter, W., Kurz-Milcke, E, & Nersessian, N.J., "Agentive learning in engineering research labs," *Proceedings 34th ASEE/IEEE Frontiers in Education Conference*, 2004

Newstetter, W., Kurz-Milcke, E., & Nersessian, N.J., "Cognitive partnerships on the bench tops," *Proceedings of the International Conference on Learning Sciences*, (Hillsdale, N.J.: Lawrence Erlbaum, 2004), pp. 372-379

Nersessian, N.J., Kurz-Milcke, E., Newstetter, W., & Davies, J.: "Research laboratories as evolving distributed cognitive systems," *Proceedings of the Cognitive Science Society 25*, (Hillsdale, N.J.: Lawrence Erlbaum, 2003), pp. 857-862

Davies, J., Goel, A., & Nersessian, N.J.: "Visual re-representation in creative analogies," *IJCAI Proceedings of the Third Workshop on Creative Systems*, 2003

N.J. Nersessian

Nersessian, N.J., Newstetter, W., Kurz-Milcke, E., & Davies, J.: "A mixed-method approach to studying distributed cognition in evolving environments," *Proceedings of the International Conference on Learning Sciences*, (Hillsdale, N.J.: Lawrence Erlbaum, 2002), pp. 307-314

Newstetter, W., Nersessian, N.J., Kurz-Milcke, E., & Malone, K.: "Laboratory learning, classroom learning: Looking for convergence/divergence in biomedical engineering," *Proceedings of the International Conference on Learning Sciences* (Hillsdale, N.J.: Lawrence Erlbaum, 2002), pp. 315-321

Craig, D.L., Nersessian, N.J., & Catrambone, R.: "The role of diagrams and diagrammatic affordances in analogy," *Proceedings of the Cognitive Science Society 24* (Hillsdale, N.J.: Lawrence Erlbaum, 2002), pp.250-255

Craig, D.L., Nersessian, N.J., & Catrambone, R.: "Perceptual simulation in analogical problem solving," in *Model-Based Reasoning: Science, Technology, Values*, L. Magnani & N.J. Nersessian, eds. (NY: Kluwer/Plenum, 2002), pp. 167-189

Dogan, F. & Nersessian, N.J.: "Conceptual diagrams: Representing ideas in design," *Proceedings of the 2nd International Conference on Diagrammatic Representation and Inference* (extended abstract), 2002

Andersen, H. & Nersessian, N.J.: "Nomic concepts, frames, and conceptual change," *Philosophy of Science* 67: 224-241, 2000

Griffith, T., Nersessian, N. J. & Goel A.: "Function-follows-form transformations in scientific problem solving," *Proceedings of the Cognitive Science Society 22* (Hillsdale, NJ: Lawrence Erlbaum, 2000), pp. 196-201

Nersessian, N. J. & Andersen, H.: "Conceptual change and incommensurability: A cognitive-historical view," *Danish Yearbook of Philosophy* 32: 111-151, 1997

Griffith, T., Nersessian, N. J. & Goel, A.: "The role of generic models in conceptual change," *Proceedings of the Cognitive Science Society* 18 (Hillsdale, NJ: Lawrence Erlbaum, 1996), pp. 312-317

N.J. Nersessian

Nersessian, N. J. & Greeno, J.: "Multiple abstracted representations in problem solving and Discovery in physics," *Proceedings of the Cognitive Science Society*, 12 (Hillsdale, NJ: Lawrence Erlbaum, 1990), pp.77-84

Nersessian, N. J. & Resnick, L. B.: "Comparing historical and intuitive explanations of motion: Does "naive physics" have a structure?" *Proceedings of the Cognitive Science Society* 11 (Hillsdale, NJ: Lawrence Erlbaum, 1989), pp. 412-420

Book Commentaries

Chandrasekharan, S. & Nersessian, N.J.: "Counterfactuals in science and engineering," *Behavioral & Brain Sciences* 30:454-455, 2008

Dogan, F. & Nersessian, N.J.: "How DOORKNOB gets its meaning: Fodor and Bowker and Star on Concepts and Categories" *Journal of the Learning Sciences* 14: 127-137, 2005

Minnen, D. & Nersessian, N.J.: "Searching for solutions: Exploring the validity of laboratory studies and search-based problem solving," *Contemporary Psychology* 48:360-363, 2003

Ram, A., Wills, L., Domesck, E., Nersessian, N. J., & Kolodner, J.: "Understanding the creative mind: a review of Margaret Boden's *Creative Mind*" *AI Journal* 79: 111-118, 1995

Ram, A., Wills, L., Domesck, E., Nersessian, N. J., & Kolodner, J.: "Creativity is in the mind of the creator," *Behavioral and Brain Sciences* 17: 549, 1995

Book Reviews

Philosophy of Science, British Journal for the History of Science, Journal for Interdisciplinary History, Physics Today, Isis, Philosophy and Psychology

Doctoral Dissertation

Scientific Evolutions: On Changing Conceptual Structures in Science (Ann Arbor, Michigan: University Microfilms, 1977). Howard Stein and Raymond J. Nelson, supervisors.

N.J. Nersessian

HONORS and AWARDS

Professional

Invited Distinguished Lecture, National Science Foundation, Division of Social, Economic, & Behavioral Sciences, 2012

American Philosophical Society, Patrick Suppes Prize in Philosophy of Science, 2011

Royal Netherlands Academy of Arts and Sciences, Foreign Member

Cognitive Science Society, Fellow

American Association for the Advancement of Science, Fellow

Teaching

The E. Roe Stamps IV Excellence in Teaching Award, Georgia Institute of Technology, 1998

Other

Gold Star Research Award, Ivan Allen College, 2011

Women, Science, & Technology (WST), Mentor Recognition Award, 2011

Outstanding Professor Award, Minorities@CC, Georgia Institute of Technology, 2007

Spencer Foundation Dissertation Fellows Fall Forum, Invited Scholar, 2003

Outstanding Interdisciplinary Activities Award, Georgia Institute of Technology, 1999

N.J. Nersessian

The Aware Winged Wheelchair Award for Support of Disabled Students, Towson State University, 1982

RESEARCH SUPERVISION

10 Postdoctoral Researchers

13 PhD Dissertations

30 PhD Dissertation Committees, including international (Italy, Denmark, Bulgaria)

15 Undergraduate Research Assistants

RESEARCH GRANTS AND AWARDS

National Science Foundation, REESE, “Becoming a 21st Century Scientist: Cognitive practices, identity formation, and learning in integrative systems biology,” Project Director (co-PI Wendy Newstetter), 2009-2012, \$1,019,240

National Endowment for the Humanities, Research Fellowship, 2005-2006

Radcliffe Institute for Advanced Study, Harvard University, Benjamin White Whitney Fellowship, 2005-2006

Netherlands Institute for Advanced Study (NIAS), Fellowship, 2005-2006 (declined invitation)

National Science Foundation, ROLE, “Laboratory learning: Model-based reasoning in biomedical engineering research and instructional laboratories,” Project Director (co-PI: Wendy Newstetter), 2004-2009, \$1,350,000

National Science Foundation, ROLE, “Biomedical engineering cognition and learning: integrating systems and analytical thinking,” Project Director (co-PI: Wendy Newstetter), 2001-2004, \$642,000

Dibner Institute for the History of Science and Technology, Massachusetts Institute of Technology, Senior Fellowship, 1999-2000

N.J. Nersessian

National Science Foundation, Scholar's Award, Science & Technology Studies 1998-2000, \$110,754

Consiglio Nazionale Delle Ricerche, Conference and Research Travel Grant, 1998-2000 (co-PI with Lorenzo Magnani, University of Pavia)

National Science Foundation, Cognitive Science Education Workshop Grant, Computer and Information Science and Engineering Program, 1994 (co-PI with Janet Kolodner, Georgia Tech)

National Science Foundation, Scholar's Award, History and Philosophy of Science and Technology, 1991-1992

National Science Foundation, Scholar's Award, History and Philosophy of Science and Technology, 1989-1990

Princeton University, Humanities Council Research Grant, 1990, 1992

Learning Research and Development Center, University of Pittsburgh, Postdoctoral Research Fellowship, Cognitive Psychology, 1986-1987

Center for Philosophy of Science, University of Pittsburgh, Senior Postdoctoral Fellowship, 1985-1986

Netherlands Institute for Advanced Study (NIAS), Fellow, 1983-1984

National Endowment for the Humanities Summer Seminar, Princeton University, 1982

Fulbright Research Scholarship, The Netherlands, 1981-1982

Maryland Committee for the Humanities Project Grant, 1980

National Endowment for the Humanities Summer Seminar, Yale University, 1979

N.J. Nersessian

VISITING APPOINTMENTS

Harvard University, Department of History of Science, Visiting Research Scholar, Spring 2000

University of Aarhus, Denmark, Department of History of Science & Department of History of Ideas, Visiting Professor, 1999

University of Cambridge, Wolfson College, Visiting Scholar, Fall 1990

University of Pittsburgh, Department of Philosophy, Visiting Scholar, 1986-1987

University of Pittsburgh, Center for Philosophy of Science, Associate Member, 1986-1987

Leiden University, The Netherlands, Visiting Fulbright Scholar, 1981-1982

NON-ACADEMIC PROFESSIONAL EMPLOYMENT

Abt Associates, Inc., Cambridge, MA

Consultant on:

evaluation of NIH Interdisciplinary Roadmap	2006-2007
evaluation of NIH Pioneer Awards Program	2006-2007
evaluation of NSF IGERT Program	2011-present

Harvard Medical School, Beth Israel Deaconess Medical Center, Department of Surgery

Surgical Learning Sciences consultant	2010-2011
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Educational Testing Service, Princeton NJ, Consultant in Science Education Assessment, 1990-1991

Massachusetts Institute of Technology, Instrumentation Laboratories (Draper), Miniature Components and Apollo 11 Displays and Human Factors Group; Computer Programmer, Mathematical Analyst, 1965-1969

N.J. Nersessian

CONFERENCE & WORKSHOP PAPERS AND SYMPOSIA (Invited and Submitted)

Philosophy of Science Association, 1988, 1990, 1992, 1994, 1998, 2002, 2004

European Philosophy of Science Association, 2011

Cognitive Science Society, Submitted Papers or Symposia: 1989, 1990, 1991, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2003, 2005, 2006, 2008, 2009, 2011

Cognitive Science Society, Invited Plenary Speaker 2012; Invited Plenary Symposia: 1994, 1997

AMC: Creativity & Cognition 2011, Atlanta, GA (submitted paper)

Atlanta Conference on Science & Technology Policy, 2011 (submitted paper)

Workshops, Interdisciplinarity; Philosophy of Systems Biology, Aarhus, Denmark, 2011 (invited paper)

Book Workshop, Cultures and Styles of Scientific Practice, Fondation des Treilles, Provence, France, 2011 (invited paper)

Book workshop, Scientific Concepts and Investigative Practice, Berlin, Germany, 2011 (invited paper)

Workshop, Science without Data?: The Role of Thought Experiments in Empirical Investigations, Dalhousie University, Halifax, Nova Scotia, 2010 (invited paper)

Conference, NWO Program on Cognition, Utrecht, the Netherlands 2010 (keynote)

International Conference on Logic, Rationality, and Reasoning, Gent, Belgium, 2010 (keynote)

N.J. Nersessian

1st International Conference on Computational Creativity, Lisbon, Portugal 2010 (keynote)

Symposium, Cognitive Theories of Science & Religion, Johns Hopkins University, 2009 (invited paper)

Workshop, Scientific Concepts and Investigative Practice, Berlin, Germany, 2009 (invited paper)

Integrating Services, Integrating Research for Co-Occurring Conditions, NIDA, 2009 (keynote)

Open Learning Interplay, Hewlett Foundation, Carnegie Mellon University, 2008 (invited plenary)

American Education Researchers Association Conference, 2009 (submitted symposium)

InfoVis, 2008 (submitted paper)

2nd International Conference of the Society for Psychology of Science and Technology, Berlin, Germany, 2008 (keynote)

Workshop, Cultures and Styles of Scientific Practice, Fondation des Treilles, Provence, France, 2008 (invited paper)

Society for Theoretical and Philosophical Psychology, 2008 (submitted symposium)

EuroCogsci '07, Delphi, Greece, 2007 (keynote)

American Philosophical Association, 2007 (invited symposium)

Conference, Telling the Past Now: Historiographies for the 21st Century, Aarhus, Denmark, 2007 (keynote)

Workshop, Open Learning Initiative, Carnegie Mellon University, 2007 (invited paper)

N.J. Nersessian

Southern Society for Philosophy and Psychology, 2007 (invited plenary)

2nd Biennial International Conference of the Russian Cognitive Science Society, St Petersburg, 2006 (keynote)

International Conference of the Learning Sciences, submitted papers & symposia 2002, 2004, 2008

Society for Research in Child Development, 2001 (2 submitted symposia)

Society for Psychological Anthropology, 2001 (invited Presidential symposium)

History of Science Society, 1991 (invited plenary symposium), 1994 (invited “critical problems” paper), 2006 (submitted symposium)

International Congress on the History and Philosophy of Science in Science Teaching, 1997, 2001; invited plenary symposia: 1995, 1989

European Association of Research on Learning and Instruction, SIG Conceptual Change, Delphi, Greece, 2004 (keynote)

Conference, Thought Experiments Re-thought, Gent, Belgium, 2004 (keynote)

Workshop, Scientific Inquiry: Developing a Consensus Research Agenda for Science Education, Rutgers University, 2005, sponsored by NSF (invited paper)

Mittleuropa Foundation, Bolzano, Italy, Invited 2-day Seminar on my research “Creativity in Conceptual Change,” 2003 (4 invited papers)

Workshop, Cognitive Studies of Science, Copenhagen, Denmark 2003 (invited paper)

10th Topika Workshop: In Use Knowledge, Mesta, Greece, 2002 (invited paper)

N.J. Nersessian

Workshop, Cognitive Studies of Science, University of Virginia, 2001, co-sponsored by NSF and the Boston Consulting Group (invited paper)

Conference, Incommensurability and Other Matters, University of Hannover, Germany, 1999 (keynote)

Conference, The Cognitive Basis of Science, Rutgers University, 1999 (invited paper)

International Congress on Model Based Reasoning in Scientific Discovery, University of Pavia, Italy, 1998 (keynote)

International Congress on Creativity and Discovery, University of Gent, Belgium, 1998 (keynote)

Workshop, Cognition, Conceptualization, & Community, Royal Danish Graduate School of Education, 1998 (invited paper)

1st World Congress on Paraconsistency, University of Gent, Belgium, 1997 (keynote)

American Association of Physics Teachers, 1997 (invited plenary symposium)

Conference, Scientific Thought from the Age of Galileo to Quantum Mechanics, Universidad Peruana Cayetano Heredia, Lima, Peru, 1995 (keynote)

Conference, Thinking Science for Teaching: The Case of Physics, Rome, Italy 1994 (submitted paper)

Conference, Imagination, & Cognition, Academie du Midi, Tuchan, France, 1993 (invited paper)

Institute for Research on Learning, Palo Alto, Carnegie Consortium Workshop, 1992 (invited paper)

American Association for Artificial Intelligence, Spring Symposium, 1992 (invited discussant)

N.J. Nersessian

Conference, Perspectives on Mind, Washington University, 1992 (invited paper)

University of Pittsburgh Center for Philosophy of Science, International Fellows Conference, 1992 (Athens, Greece), 1996 (Castilioncello, Italy) (submitted papers)

Southeast Cognitive Science Conference, 1992 (invited plenary address)

Conference, Contemporary Trends in the Historiography of Science Corfu, Greece, 1991 (invited paper)

Workshop, Women in Cognitive Science, Ohio State University, 1991, sponsored by NSF (invited paper)

Faraday Centenary Conference, Bowling Green State University, 1991 (invited paper)

Workshop, The Implications of the Cognitive Sciences for the Philosophy of Science, University of Minnesota, 1990 (invited paper)

American Education Researchers Association Conference, 1990 (submitted symposium)

1st International Congress on the History and Philosophy of Science in Science Teaching, 1989 (invited plenary symposium)

Social Studies of Science Yearbook Conference: The Role of Cognitive Psychology in Science Studies, University of Colorado, Boulder, 1988 (invited discussant)

Workshop, Cognition & Education, Bolt, Beranek & Newman, Inc, 1988 (invited paper)

Conference, Michelson - Morley Centennial, Case Western Reserve University, 1987 (invited paper)

Conference, Criticism & the Growth of Knowledge: 20 Years Later, An International Conference in Honor of Imre Lakatos Aristotle University, Greece, 1986 (invited paper)

N.J. Nersessian

Workshop, Faraday Rediscovered, The Royal Institution, London, England, 1984 (invited paper)

PROFESSIONAL ACTIVITIES

Cognitive Science Society

- Co-Chair, EuroCogsci '11, Sofia, Bulgaria, 2010-2011
- Fellows Selection Committee, 2010-2012
- Associate Editor, *Cognitive Science*, 2008-present
- Chair, Cognitive Science Society, 2003-4
- Executive Board, 2002-2005
- Governing Board, 2001-2006
- Search Committee, Editor of *Cognitive Science*, 2006
- Search Committee, Editor of *TopiCS* (new journal), 2007
- CSS Liaison & Program Committee, EuroCogsci '07, Delphi, Greece, 2006-2007
- Chair, Events Committee 2004-5; Member, 2006-7
- Representative to American Federation of Behavioral & Cognitive Sciences, 2002-2004
- Chair, Fellows Selection Committee, 2002-2003
- David Marr Prize Committee, 2002
- Program Committee, 2001, 2002, 2003, 2004, 2005, 2006
- Chair, Membership Committee, 2001-2003
- Chair, Cognitive Science Fellows Inaugural Committee, 2001-2
- Program Steering Committee, 1993-1994
- Annual Conference Referee, 1991-2007

Philosophy of Science Association

- Governing Board, 2008-2011 (elected 2 terms)
- Steering Committee, Women's Caucus, 2006
- Editorial Board, *Philosophy of Science*, 1999-2004
- Program Committee, *PSA 2002*

N.J. Nersessian

- Search Committee for Editor-in-Chief of *Philosophy of Science*, 1998
- Governing Board, 1993-1996 (elected 2 terms)

International Union of History & Philosophy of Science, DLMPS

- Elected to Council, Assessor, 2012-2015

Society for the Philosophy of Science in Practice

- Advisory Committee 2008-present
- Organizing Committee 2006-2008

National Science Foundation

- Invited Distinguished Lecture, Division of Social, Economic, & Behavioral Sciences, 2012
- Invited Chair & Panelist: The Nature of Interdisciplinary Research, 2010
- Invited Panelist: Forum on the Nature of Science and Scientific Investigation, 2007
- Invited Plenary Address: Science of Learning Centers PI Annual Meeting, 2006
- Invited Participant: Workshop on The Scientific Basis of Individual and Team Innovation and Discovery, 2006
- Invited Participant: Workshop on Cognitive Implications of Virtual or Web-enabled Environments, 2004 (Co-sponsored by the CRA and the ICLS)
- Site Visitor: Sciences of Learning Centers, 2004
- Invited Participant, Workshop: Cognitive Studies of Science and Technology, 2001 (Co-sponsored by the Boston Consulting Group and the NCIIA)
- Review Committee of Visitors: Social, Behavioral, & Economic Sciences Division, Methods, Cross Directorate, & Science and Society Cluster, 2000
- National Review Panel: Science & Technology Studies Program, 1995-1998
- Invited Participant, Workshop & Report: Human Performance in the Complex Workplace: Implications for Basic Research in Cognitive Science, 1992

N.J. Nersessian

American Association for the Advancement of Science

- Electorate Nominating Committee, 2009-2012

National Academies of Science

- Committee on K-8 Science Education, Invited Presentation, 2005
- United States National Committee of the International Union of History and Philosophy of Science (appointed by NAS/NRC), 2000-2005

Spencer Foundation

- Dissertation Fellows Fall Forum, Invited Scholar, 2003

Advisory Boards and Review Panels

- International Advisory Board, Center for Values in Medicine, Science, and Technology, University of Texas, Dallas, 2010-present
- Expert Advisor on NSF REESE Grant to Department of Biomedical Engineering, Georgia Institute of Technology: Transforming Text to Diagram: Investigating and Helping Students Develop Key Cognitive Strategies for Solving Engineering Problems, 2011-2014
- Expert Advisor on NSF STS Grant to University of California, San Diego: Diagrammatic Representations of Biological Mechanisms, 2011-2013
- International Review Committee, Cognition Program, Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO), Utrecht, the Netherlands, 2010
- International Promotion Review Committee, Department of Philosophy, University of Cyprus, 2010
- Expert Advisor on NIH Grant to University of South Florida: Toward an Integrative Behavioral Health Services Research Platform, 2008-2010
- Expert Advisor on NSF REESE Grant to UC Santa Barbara and University of Maryland: Visuo-spatial Analogy, Strategy Use, and Scientific Achievement, 2007-2011

N.J. Nersessian

- Expert Advisor on NSF Science of Learning Center Catalyst Grant to Auburn University: Learning About Causal Systems in Complex Domains: A Multidisciplinary Synthesis of State of the Art and Research Challenges, 2004-2005
- International External Review Committee, Danish Inter-University Graduate Program in Philosophy and History of Science, 2002-present
- National Advisory Board for FIPSE Grant to the Philosophy, Neuroscience, & Psychology Program, Washington University, A Modular Interdisciplinary Methods Course for Cognitive Science Majors, 2001-2004
- Review Committee, Department of History and Philosophy of Science and Cognitive Science, University of Athens, 1994-2004
- Expert Advisor on NSF Grant to the University of Pittsburgh: Portfolio Culture, A Model for Interactive Science Instruction & Assessment, 1990-1993 International External

Co-Chair, International Congresses, Model-Based Reasoning, University of Pavia, Italy

MBR '98: Model-based Reasoning in Scientific Discovery

MBR '01: Model-based Reasoning in Science, Technology, & Values

MBR '04: Model-based Reasoning in Science & Engineering

Other Conference Organization

Co-Chair, EuroCogsci 2011, Sofia, Bulgaria

Chair, Senior Advisory Committee, AMC: Creativity & Cognition 2011, Atlanta, GA

Program Committee, Diagrams 2010: International Conference on the Theory & Application of Diagrams, Portland, OR

Program Committee, AAAI-10, Workshop on Visual Representation & Reasoning. Atlanta, GA

Program Committee, Society 2nd biennial meeting of the Society for Philosophy of Science in Practice, Minneapolis, MN, 2009

N.J. Nersessian

Program Committee, 2nd International Conference on Analogies, Sofia, Bulgaria, 2009

Program Committee, Society for Philosophy of Science in Practice, 1st biennial meeting, Twente, The Netherlands, 2007

Program Committee, Philosophical Perspectives on Scientific Understanding, Amsterdam, The Netherlands, 2005

Program Committee: International Conference on Cognitive Science, Center for Behavioral and Cognitive Sciences, Allahabad, India, 2004

Program Committee, E-CAPS 2004, International European Conference on Computing and Philosophy, Pavia, Italy 2004

Program Committee, Sixth International Conference on Discovery Science, Tokyo, Japan 2003

Program Committee, Second International Conference on the Theory and Application of Diagrams, Atlanta, GA 2002

Workshop on Science and Indigenous Knowledge, East-West Center, University of Hawaii, 2001 (submitted written report to ICSU)

Program Committee, International Congress on Creativity and Discovery, University of Gent, Belgium, 1998

Co-organizer Princeton, Rutgers, & Columbia Cognitive Mini-conferences 1988-1993

Book Series

Series Editor, ***Science and Philosophy***, Springer (Kluwer) Academic Publishers, 1984-2007

Editorial Board, ***Perspectives on Cognitive Science***, Elsevier Publishers, 2003-present

N.J. Nersessian

Journals

Associate Editor, *Cognitive Science*, 2008-present

Editorial Board, *Journal of Psychology of Science and Technology*, 2007-2010

International Advisory Council, *Mind and Society*, 2002-present

Editorial Board, *Brain and Mind*, 1999-2003

Editorial Board, *Philosophy of Science*, 1999-2004

Editorial Board, *Science and Education*, 1999-2005

Editorial Associate, *Behavioral and Brain Sciences*, 1995-present

Foreign Advisory Council, *Tractrix*, 1989-1993

Research Proposal Reviewer

- The National Science Foundation
- The National Endowment for the Humanities
- Alfred P. Sloan Foundation
- Konrad Lorenz Institute, Austria
- Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO), the Netherlands
- Consiglio Nazionale Delle Ricerche (CINCENA), Italy
- Killian Program, Canada Council
- Fonds voor Wetenschappelijk Onderzoek - Vlaanderen (FWO), Belgium

N.J. Nersessian

International Education

Participated as instructor in an international summer school in cognitive science, New Bulgarian University, Sofia, 2005

Participated as instructor in an international graduate course on “The Relations between the History of Science & the Philosophy of Science,” University of Aarhus, Roskilde University, and University of Copenhagen, Denmark, July 1996

Participated as instructor in an international course on “History & Philosophy of Science,” Universidad Peruana Cayetano Heredia, Peru, August 1995

Research supervisor (with Thomas Kuhn, Peter Barker, Paul Hoyningen-Huene) on Deutscher Akademischer Austauschdienst & ACLS grant to the University of Konstanz: Incommensurability, 1994-1996

Other

Prize reviewer for the Woodrow Wilson Foundation

Manuscript referee for numerous publishers, journals, and societies

Consultant for NEH Summer Seminar Program

Consultant for Netherlands-America Commission for Educational Exchange

SELECTED INVITED ACADEMIC PRESENTATIONS

- University of Helsinki, Center for Research on Activity, Development, and Learning, 2011
- Emory University, Center for Mind, Brain, and Culture, 2011
- Georgia State University, Neurophilosophy Forum, 2009
- University of Toronto, Ontario, Canada, Department of Philosophy, 2009

N.J. Nersessian

- Georgia State University, Neurophilosophy Forum, 2009
- Harvard University, Graduate School of Education, 2009
- Vanderbilt University, Peabody College of Education, Department of Teaching & Learning 2009
- Connecticut College, Department of Philosophy, 2006
- Harvard University, Department of History of Science, 2005
- University of Torino, Italy, Cognitive Science Department, 2004
- University of Athens, Greece, Department of History & Philosophy of Science & Cognitive Science, 2004
- Emory University, Cognitive Development Seminar, Department of Psychology, 2004
- University of Rovereto, Italy, Department of Cognitive & Decision Sciences, 2003
- Washington University, Department of Philosophy & Program in Philosophy, Psychology, & Neuroscience, 2001
- University of California, San Diego, Science Studies Program, 2000
- MIT, Dibner Institute for the History of Science and Technology, 2000
- Niels Bohr Institute, Copenhagen, Denmark, 2000
- University of Aarhus, Denmark, Institute for History of Science, 1999
- University of Athens, Denmark, Department of History & Philosophy of Science & Department of Cognitive Science (5-lecture series), 1999
- Connecticut College, Department of Philosophy, 1999
- University of Roskilde, Denmark, Department of Philosophy, 1998
- University of Pavia, Italy, Department of Philosophy & Institute for Cognitive Science, 1994
- McGill University, Montreal, Canada, The Donald Mossman Lecture in History & Philosophy of Science, 1992
- University of Waterloo, Ontario, Canada, Department of Philosophy, 1991
- Louisiana State University: Workshop on The Liberal Arts & The School Subjects, 1991
- Georgia Institute of Technology, Cognitive Science, 1991
- Aristotle University, Thesoloniki, Greece, School of Pedagogy & Department of Physics, 1991
- University of California, Berkeley, Graduate Group in Science & Mathematics Education, 1990
- University of Cambridge, England, History & Philosophy of Science Colloquium, 1989

N.J. Nersessian

- Columbia University Faculty Seminar in History and Philosophy of Science, 1989
- Rutgers University, Cognitive Studies, 1989
- Educational Testing Service, Princeton, 1989
- University of California, Davis, Philosophy & History of Science Colloquium, 1989
- University of Pennsylvania, Department of History & Sociology of Science, 1989
- American Philosophical Association: SWIP session honoring Marjorie Grene, 1989
- University of California, San Diego, Science Studies Program, 1988
- University of Maryland, Committee on the History & Philosophy of Science, 1988
- Princeton University, Cognitive Science Series, 1987
- University of Pittsburgh, Department of Physics, 1987
- Cornell University, History & Philosophy of Science & Technology Program, 1986
- Virginia Polytechnic Institute: organized discussion of my 1984 book, 1985
- University of Padua, Italy, Department of Mathematics and Mechanics, 1984
- University of Groningen, The Netherlands, Department of Philosophy, 1984
- University of Utrecht, The Netherlands, History of Science Seminar, 1984
- Medical Debating Club "Lorentz", Leiden, The Netherlands, 1984
- Museum Boerhaave for the History of the Natural Sciences & Medicine, Leiden, 1984
- Leiden University, The Netherlands, Department of Philosophy, 1984

MEDIA

Science Careers (*Science*), Why Science Needs Applied Philosophy of Science, February 21, 2012

Live Science interview, Examining How Scientists Think, February 9, 2011
www.livescience.com

Psychology Today, Creating in Flow blog, Susan K. Perry, PhD, Are Engineers Creative Like We Are? January, 18, 2010

Science Digest (*Science*), How Scientists Think: Fostering Creativity in Problem Solving, September 22, 2009

N.J. Nersessian

PsychCentral, Researching Creativity and Problem Solving, September 22, 2009

Interview & Audience Discussion, **THINK** with Krys Boyd (NPR Dallas affiliate) on “creativity in a technological world,” January 28, 2010

Favorite Poem Project Video, PBS Newshour feature, June 6, 2000

Advisor to the film "*THE SCIENTIST*" for the PBS series: *THE RENAISSANCE*, 1990

PROFESSIONAL ASSOCIATIONS

Cognitive Science Society; Philosophy of Science Association; American Philosophical Association; History of Science Society; American Association for the Advancement of Science; American Psychological Association/Division 24; Fulbright Association; Society for the Philosophy of Science in Practice; International Society for the Psychology of Science and Technology; American Association of University Women

OTHER ACTIVITIES

Vocal study at The Cleveland Institute of Music and The Peabody Institute; Performed with opera companies and in recital in The United States and in The Netherlands