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Education

University of Pennsylvania B. A. in Mathematics, *summa cum laude*, 1969.
University of California, Berkeley M. A. in Mathematics 1971.
Ph. D. in Mathematics 1973.

Fellowships

Postdoctoral Fellow in Mathematics and Philosophy
1975–77 Victoria University of Wellington, New Zealand
U. S. National Academy of Sciences Exchange Scholar
1981 Polish Academy of Sciences, Warsaw
Fulbright Fellow
1987 Center for Logic and Epistemology, University of Campinas, Brazil
CNPq Fellow
1991 Philosophy Department, University of Paraíba, Brazil
(CNPq is the Brazilian government's main research funding foundation.)

Academic Employment

Iowa State University
1978–1981 Assistant Professor of Mathematics
1981–1982 Associate Professor of Mathematics with tenure
University of California, Berkeley
1982–1984 Visiting Associate Professor of Mathematics
California State University, Hayward
1985–1986 Temporary Associate Professor in Mathematics and Computer Science
San Jose State University
1988 Visiting Associate Professor in Mathematics and Computer Science
University of Auckland, New Zealand
1993 Visiting Lecturer in Philosophy
University of Nevada, Las Vegas
1995–1998 Lecturer in Philosophy
Advanced Reasoning Forum
1999– Head

Books and Monographs

Minimal Degrees of Unsolvability and the Full Approximation Construction
Memoirs of the American Mathematical Society, no. 162, 1975.

Degrees of Unsolvability: Structure and Theory
Lecture Notes in Mathematics, 759, Springer-Verlag, 1979.

Initial Segments of the Degrees Below 0'

Memoirs of the American Mathematical Society, no. 241 (2), 1981.

Computability: Computable Functions, Logic, and the Foundations of Mathematics

with Walter Carnielli, Wadsworth & Brooks/Cole, 1989.

2nd edition, including *Computability and Undecidability, a Timeline*, Wadsworth, 1999.

3rd edition, Advanced Reasoning Forum, 2008.

The Semantic Foundations of Logic

Propositional Logics

Kluwer, 1990. 2nd edition, Oxford University Press, 1995.

3rd edition Advanced Reasoning Forum, 2012.

Predicate Logic

Oxford University Press, 1994. Reprinted by Advanced Reasoning Forum, 2012.

Classical Mathematical Logic

Princeton University Press, 2006.

Critical Thinking

Wadsworth, 1998. 5th edition with Michael Rooney, Advanced Reasoning Forum, 2017.

The Pocket Guide to Critical Thinking

Wadsworth, 1999. 5th edition Advanced Reasoning Forum, 2016.

Arabic edition, 2014. Spanish edition, July, 2018.

Five Ways of Saying "Therefore"

Wadsworth, 2001.

The Guide to Critical Thinking in Economics

with Carolyn Kernberger, South-Western, 2004.

Reasoning in the Sciences: A Self-Study Guide

Advanced Reasoning Forum, 2008.

Essays on Logic as the Art of Reasoning Well

Cause and Effect, Conditionals, Explanations

Advanced Reasoning Forum, 2011.

Reasoning in Science and Mathematics

Advanced Reasoning Forum, 2012.

The Fundamentals of Argument Analysis

Advanced Reasoning Forum, 2013.

Prescriptive Reasoning

Advanced Reasoning Forum, 2013.

Reasoning and Formal Logic

Advanced Reasoning Forum, 2015.

The Guide to Writing Introductory College Textbooks

Advanced Reasoning Forum, 2013.

Conventional Gestures: Meaning and Methodology.

Illustrated by Alex Raffi. Advanced Reasoning Forum, 2014.

An American Gestuary with Alex Raffi

Illustrated dictionary of gestures, 2013. Draft at www.AdvancedReasoningForum.org.

An Introduction to Formal Logic

Advanced Reasoning Forum, 2016. Second edition, 2020.

Logic, Language, and the World

Volume 1: *The Internal Structure of Predicates and Names*

Advanced Reasoning Forum, 2016.

Volume 2: *Time and Space in Formal Logic*, typescript July, 2020.

Volume 3: *Reasoning about the World as Process* typescript, 2020.

How to Reason: A Practical Guide

Advanced Reasoning Forum, 2019.

How to Reason + Reasoning in the Sciences

Advanced Reasoning Forum, 2019.

Language and the World: Essays New and Old In preparation.

Articles

Diagonalization in Degree Constructions (with David Posner)

Journal of Symbolic Logic, 43, no. 2, 1978, pp. 280–283.

Relatedness and Implication

Relatedness and Interpretability (with L. Szczerba)

Philosophical Studies, 36, no. 2, 1979, pp. 137–175, pp. 225–231.

The Algebraic Nature of Set Assignments (with Roger Maddux)

In *Relatedness and Dependence in Propositional Logics*, ed. Richard L. Epstein
Research Report of the Iowa State University Logic Group, 1981.

Relatedness and Dependence in Propositional Logics

Abstract of talk to the Association of Symbolic Logic, 1979 Spring Meeting,
Journal of Symbolic Logic, 6, no. 1, 1981, p. 202.

A Hierarchy of Sets and Degrees Below $0'$

with R. Kramer and R. Haas, in *Logic Year 1979–1980*, eds. Lerman, Schmerl, and Soare,
Lecture Notes in Mathematics, no. 859, Springer–Verlag, 1981, pp. 32–48.

A Mistaken Theorem on Degrees of f -r.e. Sets

Abstracts of the American Mathematical Society, 3, no. 1, 1982, p. 129
(correction to *Degrees of Unsolvability* above).

The Algebra of Dependence Logic

Reports on Mathematical Logic, 21, 1987, 19–34.

Complementing Below Recursively Enumerable Degrees

with S. B. Cooper, *Annals of Pure and Applied Logic*, 34, no. 1, 1987, pp. 15–34.

- A General Framework for Semantics for Propositional Logics
Text of invited address to the VII Latin American Symposium on Mathematical Logic,
in *Methods and Applications of Mathematical Logic*, eds. W. Carnielli and L. P. de Alcantara,
Contemporary Mathematics, no. 69, 1988, pp. 149–168.
- A Paraconsistent Many-Valued Logic: J_3
with Itala M. L. D’Ottaviano, *Reports on Mathematical Logic*, 22, 1988, pp. 89–103.
- A Theory of Truth Based on a Medieval Solution to the Liar Paradox
History and Philosophy of Logic, 13, 1992, pp. 149–177.
- Valid Deductions for Falsity-Default Logics
Reports on Mathematical Logic, 26, 1992, pp. 89–95.
- The Metaphysical Basis of Logic
Manuscrito, vol. 22, no. 2, 1999, pp. 133–148.
- Arguments and Explanations
*Bulletin of Advanced Reasoning and Knowledge, 1: Proceedings of the Advanced Reasoning
Forum meeting in Bucharest, Romania, 2000*, New Europe College, 2001
(at www.AdvancedReasoningForum.org).
- Relatedness Predicate Logic (with Stanislaw Krajewski)
Bulletin of Advanced Reasoning and Knowledge, vol. 2, 2004, pp. 19–38
(at www.AdvancedReasoningForum.org).
- On Models and Theories, with Applications to Economics
Bulletin of Advanced Reasoning and Knowledge, vol. 2, 2004, pp. 77–98.
(at www.AdvancedReasoningForum.org).
- Classical Predicate Logic with Non-Referring Names
Logique et Analyse, vol. 189–192, 2005, pp. 71–86.
- Paraconsistent Logics with Simple Semantics
Logique et Analyse, vol. 189–192, 2005, pp. 189–207.
- Mathematics as the Art of Abstraction
In *The Argument of Mathematics*, eds. Andrew Aberdein and Ian Dove,
Springer-Verlag, 2013, pp. 257–289.
- Valid Inferences
In *Logic without Frontiers: Festschrift for Walter Alexandre Carnielli on the Occasion of his
60th Birthday*, eds. J.-Y. Béziau and M. E. Coniglio, College Publications, pp. 105–12, 2012.
- A Propositional Logic of Temporal Connectives
with Esperanza Buitrago-Díaz, *Logic and Logical Philosophy*, vol. 24, no. 2, pp. 155–200,
2014. DOI 10.12775/LLP.2014.015
- Reflections on Temporal and Modal Logic
Logic and Logical Philosophy, vol. 24, no. 1, pp. 111–139, 2014.
DOI 10.12775/LLP.2014.020.
- The World as Process
ETC: A Review of General Semantics, vol. 73, no. 3, pp. 213–232, 2016 (published 2018).

A Note on Countability

Think, vol. 17, no. 50, 2018, pp. 57–59.

Edited Volumes

Relatedness and Dependence in Propositional Logics,
Research Report of the Iowa State University Logic Group, 1982.

Bulletin of Advanced Reasoning and Knowledge vol. 1
Advanced Reasoning Forum, 2001.

Bulletin of Advanced Reasoning and Knowledge vol. 2
Advanced Reasoning Forum, 2005.

Reviews

Review of “Degrees of unsolvability complementary between r.e. degrees” by S. B. Cooper
Journal of Symbolic Logic, vol. 40, no. 1, 1975, p. 86.

Truth is Beauty

Essay review of *John Buridan on Self-reference* by G. Hughes,
History and Philosophy of Logic, vol. 6, no. 1, 1985, 117–125.

Review of *Logic Made Easy* by Deborah J. Bennett
Bulletin of Symbolic Logic, vol. 10, no. 4, 2004, p. 577.

Review of *Logics* by John Nolt

Bulletin of Symbolic Logic, vol. 12, no. 2, 2006, p. 290.

Newspaper column

They’re Not Like You and Me

Published weekly in *El Defensor Chieftain*, Socorro, NM, from July, 2006 to May, 2008.

Translation and editing

The BARK of DOG

The BARK of DOG Foundation, 2013.