

JEREMY HORNE

1110 Cotton Avenue
Alamogordo, NM 88310
(505) 434-1978

e-mail: jhorne18@earthlink.net
<http://home.earthlink.net/~jhorne18>

AREAS OF SPECIALIZATION

Logic (with course work in Symbolic Logic, Set Theory, Modal Logic, Computer-Managed Instruction in logic), Social and Political Philosophy, Political Economy, History of Philosophy, and Philosophy of Education

CURRENT RESEARCH INTERESTS

- **Modeling and Simulation – Hybrid Systems and States of Life and Consciousness**
- **Cosmological and quantum semantics of binary logic**
- **Effect of millimeter wave radiation on transitional states of consciousness.**
- **Consciousness studies, particularly the structure, role, and philosophy of bi-valued logic in consciousness.**
- **Other topics in logic: paradoxes, unary set instantiation, proof checkers.**

PROFESSIONAL EXPERIENCE

Independent Work

Besides my current regular work doing technical documentation, my independent work has included the following:

- **Research and grant writing**
- **Creation of user guide for Data General UNIX-based editor**
- **Articles for fiber optics and educational publications**
- **Creation of technical material for Institute of Electrical and Electronics Engineers (IEEE) 802.8, Fiber Optic Technical Advisory Group (FOTAG)**

- **Successful proposal for Tohono O'Ohdom Nation to have Border Volunteer Corps do housing rehab/construction on reservation for 1994 - 1995.**

Teaching

Adjunct Arts and Sciences Professor in Philosophy.

- **Maricopa Community College – Adjunct Instructor – 2004 - 2006**
- **Southern New Hampshire University – Distance Education (Internet courses, using Blackboard 5), Manchester, NH – 2001 - 2003**
- **Campbell University, Morrisville Center, NC - 1999**
- **Central Arizona College, Casa Grande, AZ - 1993**
- **Cochise Community College, Douglas, AZ - 1987-1993.**
- **Golden Gate University, Sierra Vista, AZ - 1992**
- **Chapman College, Sierra Vista Campus, AZ - 1992**
- **Pima Community College, Tucson, AZ - 1985-1987.**

Arts and Sciences Professor. Louisiana State University, Baton Rouge, LA. 1984 - 1985.

- **Wrote computer-assisted instructional programs in BASIC for Data General mainframe. Programs taught Aristotelian logic and first order theory. Wrote own software documentation.**
- **Programmed, installed, and maintained software to facilitate undergraduate problem solving courses.**
- **Taught introduction to logic (propositional and first order logics, and scientific methods), symbolic logic, and advanced logic (second order logic, Turing machines, and theorem provers).**
- **Inspired several students to enter graduate study in philosophy.**

Instructor/Computer Programmer. University of Florida, Gainesville, FL. 1982 - 1984.

- **Taught introductory logic to undergraduate students.**
- **Researched, designed, and installed on a VAX PDP 1170 computer-assisted instructional programs (CAI) in BASIC to teach Aristotelian and propositional logics.**
- **Developed/compiled student grading system in BASIC.**

- Wrote theorem prover, "Syllogical," for VAX and Commodore 64 in BASIC for propositional and quantificational logic system.
- Documented own software - on line help, hard copy manual.
- Program adopted at University of Florida as model of logic CAI.

Professor/Coordinator/Proposal Writer. Cochise Community College, Sierra Vista, AZ. 1987 - 1990.

Teacher/Coordinator. Arizona State Prison Complex, Douglas, AZ. 1987 - 1988.

- Established/taught high school preparatory curriculum for prison inmates, groups of 5-20.
- Created Computer-Managed Instruction Project for inmates - procured PDP-11 through donation and supervised inmates in its assembly and operation. Wrote academic tests in BASIC and installed them on PCs. Procured and installed PC-based academic software for remedial reading program.
- Enabled several students to get high GED scores and enter college.

Technical Writing

(For details about the technical writing work, see my [technical writing background](#))

Other Professional Work

Reviewer, *Journal of Systemics, Cybernetics and Informatics, Neuroquantology*

Member, editorial board. *International Information System on Resonance Technologies - 2000*

Project Manager. Universidad de Morelos, Cuernavaca, Morelos, Mexico. 1980 -1982.

- Computer modeled government costs/risk assessments utility economics of Mexican foreign debt implications U.N. debt servicing formulas were projected along with other data using SPSS and

- programs were run on CDC Cyber 7300 mainframe in Mexico City.
Worked with University Rector in doing time series analysis of debt.
- Accurate predictor of 1990 debt crisis.

PUBLICATIONS

- “The Transition Between Life And Death - Problems and Prospects”, Accepted for publication by *Neuroquantology*, Issue No. 2, 2007
- “Recursion of Binary Space as a Foundation of Repeatable Programs”, *Journal of Systemics and Informatics*, volume 4 - number 5, pages: 73-77, International Institute of Informatics and Systemics –2006
- “Recursion of logical operators and regeneration of discrete binary space”, June 2000, *Informatica*, Josef Stefan Institute, Ljubljana, Slovenia.
- “The General Theory and Method of Binary Logical Operations” – *International Journal of Applied Science and Computations* – December, 2000.
- “Millimeter Wave Radiation’s Effect on Mental States – a philosophical framework for study of MMWR” - *International Information System on Resonance Technologies* –Collection No. 19 (also translated into Russian) May 2000 (<http://web.uni.udm.ru/common/biomed/mis-rte.htm>).
- "Logic as the Language of Innate Order in Consciousness," *Informatica* No. 4, December 1997.
- Critical thinking articles for National School Boards Association, such as "Teaching Kids to Think: Philosophy-Based Education," *Updating School Board Policies*, Vol. 23, No. 3, April 1992.
- Co-author of *MIL-HDBK-415, A Design Handbook for Fiber Optic Communications Systems*, 1993.
- *Logic: The Theory of Order*, an in-house college logic text to teach the ontological foundations of propositional logic for Pima Community College, Tucson, AZ, 1986 (Currently – 2005 – being re-written for professional publication).
- *Syllogical*, a theorem prover for VAX and Commodore 64 in BASIC for propositional and quantificational logic, 1984.
- "Philosophy for the People," weekly column for the *Ely (Nevada) Daily Times*," 1980.

- Numerous articles about fiber optics communications standards and reports on IEEE standards meetings. for *Telecom Standards*, published by Information Gatekeepers, 1992-1993.

PRESENTATIONS

- “Autodestruction and Autopoiesis in Adaptive Systems”, American Association for the Advancement of Science, Annual Meeting, 2007
- “Towards a Sound Method of Peer Review”, 1st International Conference on Knowledge Communication and Peer Review, 2006
- “Learning and Teaching Integrity as the Bulwark of Sound Peer Review Mechanics”, 1st International Conference on Knowledge Communication and Peer Review, 2006
- “Modeling and Simulating the International Battle Space – Problems and Prospects of Hybrid Systems Acting on their Own”, 3d International Conference on Cybernetics and Information Technologies, Systems and Applications: CITSA'06.
- “The Transition Between Life And Death - Problems and Prospects” - Towards a Science of Consciousness, Tucson, AZ –Poster Session – 4-8 April 2006.
- “Recursion of binary space as a foundation of repeatable programs” – 2nd International Conference on Cybernetics and Information Technologies, Systems and Applications: CITSA'05.
- “Teaching a Philosophy of Logic” – Southwest Area Region Meeting - American Association for the Advancement of Science, Poster Session - Tucson, AZ, 13-16 April 2005.
- “The Most Fundamental Law” – University of Arizona - Quantum Mind Conference - Poster Session – 15-19 March 2003.
- “The Ontology of Scientific Methods” – American Association for the Advancement of Science, Poster Session - Denver, CO, 13-18 February 2003.
- “Millimeter Wave Radiation’s Effect on Mental States – Revisited” – Towards a Science of Consciousness, Tucson, AZ –Poster Session - 8-12April 2002.
- Conference paper - “Using MMWR to explore the transition between life and death” – Information Society 2000, Ljubljana, Slovenia, 17-19 October 2000.

- Invited Conference paper - *The General Theory and Method of Binary Logical Operations* - Eighth International Conference on Numerical Analysis and Computer Science, Plovdiv, Bulgaria, August 1999.
- Conference paper – *Information Processing Efficiency of Logical Operators*, International Conference on Consciousness in Science and Philosophy, Charleston, IL, November 1998.
- Conference paper - *Logic as the Language of Innate Order in the Universe*- Mid-South Philosophy Conference, February 1996, and poster session - Second International Conference on "Towards a Scientific Basis of Consciousness," April 1996.
- Conference paper - *Directed Critical Thinking*, Second International Conference on Critical Thinking, Sonoma, CA, August 1988.
- Conference paper: - *On Resolving the Paradox of Material Implication*, The Second International Conference on Logic and Cognitive Studies, Houston, TX, July 1985.
- Appeared on television/radio stations and in schools to argue for critical thinking in school curriculums.
- Wrote many newspaper columns/articles on philosophy and general news articles.

CURRENT PROFESSIONAL ORGANIZATIONS

- American Association for the Advancement of Science
- Bioelectromagnetics Society
- Union of Concerned Scientists

EDUCATION/HONORS

- University of Florida, Gainesville, FL, Ph.D. in Philosophy.
- Southern Connecticut State University, New Haven, CT, M.S.. in Political Science.
- Johns Hopkins University, Baltimore, MD, B.A. in International Relations.
- Many graduate courses in political science.
- Courses in fiber optics, optical network theory, auto technology, and corrections.

- **Phi Kappa Phi, National (Academic).Honor Society.**
- **Who's Who in Science and Engineering - 2nd edition, 1994.**
- **Who's Who in the World - 2000.**
- **Who's Who in America – 2002.**
- **Who's Who in America – 2006**

CERTIFICATIONS

- **Arizona Community College Teaching - Philosophy/Social Science (Lifetime)**
- **California Community College Teaching - Government (Theory and Practice, Local and International)/Philosophy and Religion/Social Science/Automotive Mechanics and Related Technologies (Lifetime)**