

## Vita of Yiannis N. Moschovakis

**Born:** Athens, Greece, January 18, 1938.

**Education:** B.S., M.S., Mass. Inst. of Technology, 1960, Ph.D., U. of Wisconsin, 1963, under the direction of Stephen C. Kleene.

**Academic positions:** Professor of Mathematics, UCLA, since 1971; Professor of Mathematics, University of Athens, 1996 – 2005; Professor of Mathematics Emeritus, University of Athens, 2005 –.

**Research interests:** Recursion theory, Descriptive set theory, Foundations of Computer Science; Philosophy of language (and mathematics).

**Teaching:** Twenty two Ph.D. students; nineteen from Mathematics at UCLA, two from Computer Science at UCLA, one from the Graduate Program for Logic Algorithms and Computation at the University of Athens. Currently I have one student in Mathematics at UCLA (finishing in June, 2008) and one in Mathematics at the University of Athens. I have been nominated by my Department for the UCLA Distinguished Teaching award, and I won the Departmental Robert Sorgenfrey Teaching Award in 1996.

**Fellowships, honors, etc.:** Guggenheim Fellowship, 1968-1969; Sloan Fellowship, 1970-1972; Fullbright Travelling Lectureship (Novosibirsk), March 1979; Corresponding Member of the Academy of Athens, elected 1980; Honorary Ph.D. in Mathematics from the University of Athens, conferred 1987. Honorary Ph.D. in Mathematics from the University of Sofia (Bulgaria), conferred 2002.

**Publications:** Some fifty five research papers in logic, set theory, recursion theory, the foundations of computer science and the philosophy of language; two research monographs, *Elementary Induction in Abstract Structures* and *Descriptive Set Theory*; and one textbook, *Notes on Set Theory*. (This has also been published in Greek.)

**Administration, professional service, etc.:** MATHEMATICS DEPARTMENT, UCLA: Undergraduate Vice Chair, 1969-1970; Graduate Vice Chair, 1979-1980, 1982-1984; Chair, 1984-1987; Director of the Program in Computing, 1987-1989. ASSOCIATION FOR SYMBOLIC LOGIC: Editor of the Journal of Symbolic Logic, 1977-1982; Vice President, 1983-1986, 1989-1992; Editor of the Perspectives in Mathematical Logic Series, 1989-1998; President, 1992-1995. AMERICAN MATHEMATICAL SOCIETY: Member of the Steele Prize Committee, 1982-1985 (Chair for 1983-1985); Member of the Council, 1986-1989. NATIONAL SCIENCE FOUNDATION: Member of the Advisory Panel for Mathematics, 1980-1982; Member of the Selection Committee for Postdocs, 1981-1983. LOGIC FOR COMPUTER SCIENCE: Member of the Organizing Committee, 1990-1998; Member of the Program Committee, 1992. GREECE: Director, Graduate Program in Logic, Algorithms and Computation (MPLA), 1997 –

**Some invited lectures:** International Congress of Mathematicians, 1974; International Congress for Logic, Methodology and Philosophy of Science, 1971, 1975, 1995; European Summer meetings of the ASL, 1969, 1975, 1980, 1981, 1983, 1990; ASL Annual Meeting, 1985; AMS Summer Meeting, 1984; AMS Research Institutes in Set Theory (1967) and Recursion Theory (1982); The Vienna Circle Lecture, European Summer School in Logic, Language and Information, Helsinki, August 2001; The Tarski Lectures at UC Berkeley, Spring 2008.

**Some recent and pending invited lectures:** Dagstuhl Seminar in Topological and Game-Theoretic Aspects of Infinite Computations, July 2008 (lecture optional); Logic in Computer Science (LICS), CMU, June 2008; Oberwolfach meeting in Proof Theory and Computation, April 2008 (lecture optional); The Tarski Lectures, UC Berkeley, March 2008; Deduction in semantics workshop, Stuttgart University, October 2007; Joint Session of the Association for Symbolic Logic and the American Philosophical Association, Chicago, April 2007; Workshop at BANFF (Canada) on mathematical methods in philosophy, February 2007; Joint session IUHPS/DLMPS, Paris, November 2006; Kechris meeting, Urbana, Illinois, June 2006; Adjan meeting, Moscow, February 2006; Logic meeting at Oberwolfach (member of the organizing committee), March 2005; Computability in Europe, Amsterdam, June 2005; Lecture in philosophy at the IHPST, Paris, (The referential theory of meaning), October 2005; Lecture at the Institut Henri Poincaré, Paris, (Arithmetic complexity), October 2005.

## Bibliography of Yiannis N. Moschovakis

### BOOKS

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2. Y.N. Moschovakis, *Descriptive set theory*. Studies in Logic, North Holland, 1979.
3. Y.N. Moschovakis (ed.), *Logic from Computer Science*. Proceedings of a workshop held November 13-17, 1989 at MSRI, Berkeley, California; Springer Verlag, 1990.
4. Y.N. Moschovakis, *Notes on Set Theory*. Undergraduate Texts in Mathematics, Springer, 1994. Second Edition, Springer, 2006.
5. Γ. Μοσχοβάκης, *Σημειώσεις στη Συνολοθεωρία*, Greek translation of [4], Νεφέλη, Αθήνα 1994.

### ARTICLES

1. Y.N. Moschovakis, *Recursive metric spaces*. Fund. Math., **55**, 1964, 215-238,
2. Y.N. Moschovakis, *Notation systems and recursive ordered fields*. Compositio Math., **17**, 1965, 40-71,
3. Y.N. Moschovakis, *Many-one degrees of the predicates  $H_a(x)$* . Pacific J. Math., **18**, 1966, 329-342,
4. Y.N. Moschovakis, *Hyperanalytic predicates*. Trans. Amer. Math. Soc., **129**, 1967, 249-282,
5. J.W. Addison, Y.N. Moschovakis, *Some consequences of the axiom of definable determinateness*. Proc. Nat. Acad. Sci., **59**, 1968, 708-712,
6. Y.N. Moschovakis, *Abstract first order computability:I*. Trans. Amer. Math. Soc., **138**, 1969, 427-464,
7. Y.N. Moschovakis, *Abstract first order computability:II*. Trans. Amer. Math. Soc., **138**, 1968, 465-504,
8. Y.N. Moschovakis, *Abstract computability and invariant definability*. J. Symbolic Logic, **34**, 1969, 605-633,
9. Y.N. Moschovakis, *The Suslin-Kleene theorem for countable structures*. Duke Math. J., **37**, 1970, 341-352,
10. Y.N. Moschovakis, *Determinacy and prewellorderings of the continuum*. Math. Logic and Foundations of Set Theory (Y. Bar-Hillel, ed), Amsterdam-London, 1970, 24-62,
11. C.C. Chang, Y.N. Moschovakis, *The Suslin-Kleene theorem for  $V_k$  with cofinality( $k$ ) =  $w$* . Pacific J. Math., **35**, 1970, 565-569,
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13. Y.N. Moschovakis, *Axioms for computation theories - First draft*. In Logic Colloquium '69, R.O. Gandy and C.E.M. Yates (eds.), North-Holland, 1971, 199-255,
14. Y.N. Moschovakis, *Predicative classes*. Proc. of Symposia in Pure Math., Part 1, Axiomatic Set Theory Amer. Math. Soc., **13**, 1971, 247-264,
15. K.J. Barwise, R.O. Gandy, Y.N. Moschovakis, *The next admissible set*. J. Symbolic Logic, **36**, 1971, 108-120, .
16. Y.N. Moschovakis, *Uniformization in a playful universe*. Bull. Amer. Math. Soc., **77**, 1971, 731-736,
17. Y.N. Moschovakis, *The game quantifier*. Proc. Amer. Math. Soc., **31**, 1972, 245-250,
18. Alexander S. Kechris, Y.N. Moschovakis, *Two theorems about projective sets*. Israel J. Math. , **12**, 1972, 391-399, .

19. Y.N. Moschovakis, *Analytical definability in a playful universe*. In Logic, Methodology and Philosophy of Science IV, P.I. Suppes, L. Henkin, A. Joja and G. Moisil (eds.), North-Holland, 1974, 53-79,
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