

CURRICULUM VITAE

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EDUCATION

B.A. (Economics and Mathematics), University of Ghana, 1982.

M.A. (Economics), Cornell University, 1985.

Ph.D. (Economics), Cornell University, 1986.

EMPLOYMENT and DIRECTORSHIPS

Fall 1998 - present Professor of Economics New York University

2000 – present Founding Director of Africa House, NYU

2000 – present Founding Co-Director of the Development Research Institute (NYU)

June 2002 – Jan 2008 Vice Provost for Globalization and Multi-Cultural Affairs, NYU
(with responsibility for NYU's International campuses and programs, and
provostial liaison to the NYU Schools of Business, Education and Social
Sciences in Arts and Sciences)

2003 and 2004 Visiting Professor at Ashesi University (Accra, Ghana)

2001 – 2003 Member of Founding Management Team to establish Ashesi University
(Ghana's first secular private non-profit liberal arts university)

1999-2000 Social Science Research Council, Program in Applied Economics
Program Director

Fall 01 – Spring 02 Visiting Fellow, Yale Growth Center and the Cowles Foundation

Spring 1998,2000 1996 – 1998	Fellow, Cowles Foundation, Yale University Director of Graduate Studies, New York University
Summer 1998	Visiting Professor, University of Venice.
Dec. 1994	Consultant, Institute of Empirical Economics, Minneapolis Fed. Res. Bank
Fall 1994	Visiting Professor, Univ. of Pennsylvania
Summer 1994	Visiting Professor, University of Venice.
Summer 1991	Visiting Fellow, I.A.E., Universitat Autònoma de Barcelona.
1986-88	Assistant Professor of Economics, Brown University.

FIELDS OF SPECIALIZATION Human Capital Theory, Growth and Economic Development, Migration and Brain Drain Studies, Game Theory, Learning Theory.

Publications and Working Papers

I. Human Capital Theory/Labor Economics

1. "Economic Development as Problem Solving: A Model of Guns, Germs and Steel," Manuscript, New York University (2008).
2. "Is the Brain Drain Good for Africa?" with William Easterly in "Skilled Migration Today: Prospect, Problems and Policies," (eds) Jagdish Bhagwati and Gordon Hanson, Russell Sage, 2008 (forthcoming).
3. "Stepping Stone Mobility" with Boyan Jovanovic, *Carnegie-Rochester Conference Series on Public Policy*, June 1997, vol. 46, pp. 289-326.
4. "Learning by Doing and the Choice of Technology," with Boyan Jovanovic, *Econometrica*, (1996), 64, 6, pp. 1299-1310.
5. "A Bayesian Learning Model Fitted to a Variety of Empirical Learning Curves," with Boyan Jovanovic, *Brookings Papers on Economic Activity: Microeconomics Issue* (1), 1995, 247-299.
6. "The Transfer of Human Capital," *Journal of Economic Dynamics and Control* with Boyan Jovanovic, 1995, 19, 1033-1064.

7. "Research and Productivity," with Boyan Jovanovic, in "Creation and Transfer of Knowledge: Institutions and Incentives", (eds) Giorgio Barba Navaretti, Partha Dasgupta, Karl-Göran Mäler, Domenico Siniscalco.
8. "The New Growth Theory," Chapter in The Encyclopedia of Life Support Systems (EOLSS), UNESCO, 2002, (www.eolss.net), in Fundamental Economics, Edited by : Mukul Majumdar.

II. Experimental Economics

8. "An Experimental Study of Belief Learning Using Real Beliefs," joint with Andy Schotter, *Econometrica*, (2002).
9. "On the Informational Content of Advice: A Theoretical and Experimental Study," (joint with Andrew Schotter and Barry Sopher), *Economic Theory*, 2005

III. Game Theory and Bayesian Learning Models

10. "Bayesian Learning and Convergence to Nash equilibrium Without Common Priors," *Economic Theory*, 1998, 11(3), 643-656.
11. "Convergence in Economic Models with Bayesian Hierarchies of Beliefs," *Journal of Economic Theory*, 1997, 74(2), 266-296.
12. "Savage-Bayesians Play a Repeated Game," in "*The Dynamics of Norms*," (eds.) C. Bicchieri, R. Jeffrey, and B. Skyrms, Cambridge University Press, (1996).
13. "Savage Bayesian Models of Economics," with N. Kiefer in "*Essays in Learning and Rationality in Economics and Games*" (eds.) A. Kirman and M. Salmon, Basil Blackell Press, (1995).
14. "Advances in Learning Theory," with N. Yannelis and M. Woodford, *Economic Theory*, 1994, 4(6), 811-820.
15. "Bayesian Learning in Leads to Correlated Equilibria in Normal Form games," *Economic Theory*, 1994, 4(6), 821-841.
16. "On the Convexity of the Value Function in Bayesian Optimal Control Problems," *Economic Theory*, 1994, 4, 303-309.

17. "Learning in Mis-Specified Models and the Possibility of Cycles," *Journal of Economic Theory*, 55, 416-427, 1991.
18. "The Number of Equations Versus the Number of Unknowns: The convergence of Bayesian Posterior Processes," *Journal of Economic Dynamics and Control*, 15, 687-713, 1991.
19. "Optimal Control of a Nonlinear Regression Process with Unknown Parameters," with N. Kiefer, *Lecture Notes in Control and Information Sciences*, Springer Verlag, 1989.
20. "Optimal Control of an Unknown Linear Process with Learning" with N. Kiefer, *International Economic Review*, 30(3), pp. 571-586, 1989.
21. "Control of a Linear Regression Process with Unknown Parameters," with N. Kiefer in *"Dynamic Econometric Modelling"* (eds). W. Barnett and H. White, Cambridge University Press, 1988.

IV. Growth Theory

22. "Optimal Growth with Unobservable Resources and Learning," with Lars Olson, *Journal of Economic Behavior and Organization*, May, 1996, vol 29, pp. 465-491.
23. "The Stochastic Growth Model when Utility Depends on Both Consumption and the Stock Level," with Prof. Lars Olson, *Economic Theory*, 1994, 4, 791-797.
24. "On the Existence of Optimal Processes in Non-stationary Environments" with T. Mitra, *Zeitschrift für Nationalökonomie*, 53, 245-270, 1991.
25. "Stochastic Dynamic Resource Models With Stock-Dependent Rewards," with L. Olson, *Journal of Economic Theory*, 55, 161-168, 1991.
26. "Dynamic Optimization Under Uncertainty: Non-convex feasible set" with M. Majumdar and T. Mitra, in *"Joan Robinson and Modern Economic Theory,"* (Ed.) G. R. Feiwel, MacMillan Press, New York, 1989.
27. "On Characterizing the Optimality of Stochastic Competitive Processes" *Journal of Economic Theory*, 45(2), 316-329, 1988.

Reprinted in *"Decentralization in Infinite Horizon Economies,"* Edited by M. Majumdar,

Westview Press, 1992.

V. Miscellany

28. Review of the book "Games, Strategies and Managers," by John McMillan, *Journal of Economic Literature*, XXXI, 890-891.
29. Study Guide to accompany "Microeconomics: A Modern Approach," by A. Schotter, Harper Collins, 1994.

UNPUBLISHED WORKING PAPERS or PAPERS UNDER PREPARATION FOR SUBMISSION TO JOURNALS.

1. "Learning, Quantal Response Equilibrium and Equilibrium in Beliefs" Manuscript, 2001.
2. "Comparing Learning Models With Ideal Micro-Experimental Data Sets", joint with Andy Schotter, under review at the American Economic Review.
3. "The Truth is in the Eye of the Beholder: or Equilibrium in Beliefs and Rational Learning in Games ," Manuscript, 1998."The Content of Human Capital," with Boyan Jovanovic.
4. "Learning Toward Quantal Response Equilibria," Manuscript 2000, under review at Games and Economic Behavior.
5. "The Types of a Bayesian Equilibrium" C.V. Starr Working Paper #93-36, NYU.
6. "The Savage-Bayesian Foundations of Economic Dynamics," C.V. Starr WP #93-35, NYU.
7. "On Bayesian Learning in Optimal Control Problems," C.V. Starr Working Paper #90-02.
8. "Most Games Violate the Harsanyi Doctrine," C.V. Starr Working Paper #91-39.
9. "Bayes' Rational Equilibria" C.V. Starr Working Paper #89-05.
10. "Learning and Agreeing-To-Disagree Without Common Priors," C.V. Starr WP #91-51, NYU.

AWARDS, GRANT AND FELLOWSHIP PROPOSALS

- 2003-2006 National Science Foundation Grant #SES-0425118 “The Impact of Advice on Decision-Making” with A. Schotter and B. Sopher.
- 2001-2002 National Science Foundation Grant #SBR-0111640 “Advice and Beliefs in Experimental Games” with A. Schotter and Barry Sopher.
- 1999-2001 National Science Foundation Grant #SBR-98118621 “An Experimental Study of Learning in Repeated Games Using Real Beliefs” with Andrew Schotter.
- 1998-00 National Science Foundation Grant #SBR-9810723 “Skills, Optimism and Growth: A Bayesian Analysis.”
- 1995-98 National Science Foundation Grant # SBR-9422763
“Human Capital and Bayesian Information Theory, ” with Boyan Jovanovic.
- 1992-1993 New York University Presidential Fellowship.
- 1991 New York University Curricula Development Fund
- 1991 New York University Challenge Fund
- 1984 - 86 Floyd Mundy Fellowship (Cornell)
- 1983 - 84 A.D. White Presidential Fellowship (Cornell)

SELECTED SPEECHES AND CONSULTANCIES

1. Keynote Address and Background Technical Paper for the UN Economic Commission for Africa Spring 2007, on Knowledge and Employment.
2. Background Technical Paper for the World Bank World Capital Flight Conference 2007, and presentation in Pretoria.
3. Background Technical Paper for the World Bank World Development Report 1998/99 “Knowledge and Development.”

EDITORSHIPS AND MEMBERSHIP IN PROFESSIONAL SOCIETIES

Associate Editor, Journal of Economic Theory;
Associate Editor, Economic Theory, 2001-2004;
Editorial Board Member, Journal of African Development (formerly Journal of African Finance and Economic Development, JAFED).
National Science Foundation Advisory Panel for Economics (member, 2001-2003)
Member of Econometrics Society and the Society for Economic Dynamics.

REFEREEING: Econometrica, Journal of Economic Theory, Review of Economic studies, International Economic Review, Journal of Economic Dynamics and Control, Journal of Political

Economy, Economic Theory, National Science Foundation, etc, etc.

TEACHING

AT NEW YORK UNIVERSITY:

The Economics of Speculation - (Ph.D., , almost every year since 1994)
Econ. of Information and Uncertainty (Graduate, Fall '88, Spring '91, '92, '94).
Topics in Dynamic Economics and Growth (Graduate, Spring '89 and '90).
Microeconomic Theory (Graduate Core class: Each fall 1989-01).
Games, Decisions and Strategy (Undergrad.: Each Spring 1989-94.)
Societies and The Social Sciences: An Economics Perspective (Undergrad. Fall 1996-99)

AT BROWN UNIVERSITY:

Economics 205: Microecon. Theory (Graduate Core class, Fall 1987)
Economics 202: Math. for Economists (Grad., Spring 1988).
Economics 111 & 113: Principles of Micro. (Undergraduate level, fall 1986, fall and Spring 1987)
Economics 283: Dynamic Optimization and Econ. Growth (Graduate level, Spring 1987 and 1988).

COMMITTEE SERVICE AT NEW YORK UNIVERSITY.

NYU Provost Search Committee, 2001-2
Faculty of Arts and Science Promotion and Tenure Committee 2000-2003
GSAS Financial Aid Committee 1998-2001
Director of Graduate Studies Fall '95 - 2000.
FAS Dean's Search Committee 1999-2000
FCC Steering Committee 99-present
Internal Faculty Student Committee 99-00
GSAS Task Force on Financial Aid 1998
GSAS Financial Aid Committee 1998-2001
Africana Center Search Committee 1997 - present.
Economics Dept. Recruitment Committee, '88-'90, '91-92, '93-'94, '97-present .
Core Microeconomics Field Exam committee. '89 to present.
C.V. Starr Steering Committee. 1990-91:
Merit and Evaluation Committee, '91-'92 and fall '95 to the present.

CONFERENCES AND SEMINARS in 2007

Nov 15 – 17, 2007: African Economics Conference, Addis Ababa, hosted by the UN Economic Commission for Africa (UNECA) and the African Development Bank (AfDB).

Oct.30 – Nov 4, 2007: World Bank-Reserve Bank of South Africa Conference on Capital Flight in Pretoria, South Africa.

Oct. 2-4, 2007: UN expert group meeting on “Full Employment and Decent Work for All”, (UN Division for Social Policy and Development, Department of Economic and Social Affairs (DESA)).

Sept. 2007: The Cornell University Reunion Conference on International Development, organized by Ravi Kanbur.

August 2007: Review Panel on the Economics Departments at Cornell University.

July 27, 2007: Trade as a Vehicle for Peace in Africa Colloquium at the Mandela Institute of the University of the Witwatersrand, Johannesburg.

July 11-12, 2007: The Initiative for Policy Dialogue (IPD, Columbia University) Task Force on Africa, At the University of Manchester’s Brooks World Poverty Institute, organized by Joseph Stiglitz.

May 2007: Keynote Address on “Knowledge and Employment” at the UN Economic Commission for Africa, Addis Ababa (Committee on Development Information, CODI V).

CONFERENCES AND SEMINARS in 2006

Dec. 12, 2006: Univ. of Washington St. Louis, Dept. of Economics “Economic Development as Problem Solving.”

Dec 5, 2006: Mini-Conference on Migration at NYU organized by Yaw Nyarko and William

Easterly.

Nov. 2006: Annual Meetings of LACEA-LAMES (Latin American Caribbean Economics Association and Latin American Econometrics Society) in Mexico City (ITAM).

Sept. 2006: Center for Global Development, CGD roundtable discussion on migration and development, organized by Nancy Birdsall.

July 6 –8, 2006: The Society for Economic Dynamics (SED) annual meetings, Vancouver Canada.

April 25, 2006: World Bank Conference, "Impact of International Migration and Remittances on Growth" - PREM

CONFERENCES AND SEMINARS in 2005

Oct. 2005: Annual Meetings of LACEA (Latin American Caribbean Economics Association) in Paris at the American University of Paris.

March 2005: Columbia University, Skilled Migration Conference, organized by Jagdish Bhagwati.

CONFERENCES AND SEMINARS in 2004

November 2004: Cornell University, Institute for African Development, "Some Thoughts on Foreign Aid"

CONFERENCES AND SEMINARS in 1999

Feb. 8: Stanford and San Francisco Fed. Reserve Bank Conference on Monetary

Economics.
April 99: Northwestern University
Aug. 99: Cancun, Mexico Latin American Meetings of the Econometrics Society

CONFERENCES AND SEMINARS in 1998

July 1998: Stony Brook Summer Institute on Game Theory and Economics, S.U.N.Y. Stony Brook, New York.
Oct. 22, '98: Princeton University
Nov. 11, '98: Rutgers University
Dec. 5, 1998: NBER conference on Monetary Economics

CONFERENCES AND SEMINARS in 1997

AEA meetings, New Orleans, Jan. 1997.
Economic Theory Meetings, Istanbul, Summer 1997.
SEDC meetings, Keble College, Oxford, Summer 1997.
Seminars in 1997: Univ. of Arizona, Northwestern Univ., U. of Pittsburg, Univ. of Maryland, Georgetown Univ., Univ. of Minnesota.

CONFERENCES AND SEMINARS SINCE 1994

April 19-20, '96: Carnegie-Rochester Conference, Rochester.
April 18, '96: University of Pennsylvania
Jan 5-7, 1996: American Economics Association Meetings, San Francisco.
Dec. 8, 1995: Southern Methodist Univ., Dallas.
Oct. 13, 1995: ITAM, Mexico City, Mexico.
Sept. 21-23, '95: Conference on Knowledge and Productivity, FEEM, Castelgandolfo, Italy
April 6, 1995: Cornell University
Jan 1995: AEA/Econometric Society Meetings, Washington D.C.
Nov. 1994: Univ. of Illinois at Urbana Champaign
Oct. 1994: Rochester University
Oct. 1994: Georgetown University
July 1994: Northwestern University Summer Macro Workshop.
July 1994: Society for Economic Dynamics and Control Meetings, UCLA
Paper (joint with B. Jovanovic) presented at Plenary Session.
June 1994: Econometrics Society Meetings, Quebec City, Canada
April 1994: University of Chicago.
March, 1994: NBER Growth Meetings, Harvard University.
March 9th, '94: Princeton Univ.

OTHER CONFERENCES AND SEMINARS

Dec. 3-4, '93: Washington Univ.
Oct. 25th, '93; Univ. of Virginia.

Oct. 12, '93: University of Toronto, Seminar presentation.
Aug 1-10, '93: Stanford University SITE meetings.
July 1, 1993: Brown University Mini-conference.
May '93: SEDC meetings, Cephalonia, Greece.
February 13, 1993: Seminar at University of Laval, Quebec City, Canada.
August 5-9, 1992: Workshop on Cooperation and Dynamics in Games," Northwestern University.
June 17-22, 1992: Conference on Knowledge and Rationality, Castellioncello, Italy.
June 13, 1992: Society for Economic Dynamics and Control meetings, Montreal Canada.
April 23, 1992: Cornell University.
April 3, 1992: University of Guelph, Guelph, Canada.
March 28-30, 1992: Decentralization Conference, Tucson, Arizona.
March 14, 1992: McGill University, Montreal, Canada.
Jan. 3-5, 1992: A.E.A./E.S. Meetings in New Orleans.
Oct. 17, 1991: University of Chicago.
Oct. 16, 1991: Northwestern University.
Oct. 4, 1991: Brown University.
Sept. 17, 1991: Cornell University.
July 22-23, 1991: Stony Brook Summer Institute on Game Theory and Economics, S.U.N.Y. Stony Brook, New York.
July 1-12, 1991: Workshop on Learning and Rationality in Economics, European University Institute, Florence, Italy.
June 24-27, 1991: International Conference of Game Theory, University of Florence and European University Inst., Florence, Italy.
June 14, 1991: Seminar at Universitat de Pompeu Fabra, Barcelona.
May 28th, 1991: Seminar at the Institut d'Analisi Economica, Universitat Autonoma de Barcelona.
May 17-18, 1991: Univ. of Penn. Mini-Conference on Learning.
April 12-14, 1991: The N.S.F. Decentralization Conf. Cornell Univ.
April 3-8, 1991: Workshop on "Learning, Rationality and Games," Santa Fe Institute, New Mexico.
March 8, 1991: University of Pennsylvania, Philadelphia.
December 11, 1990: Bell Corp., New Jersey.
(Presented my paper "Bayesian Rationality and Learning without Common Priors" or variants at the above seminars).

November 21, 1990: Georgetown University
(Presented my paper "Learning in Mis-Specified Models and the Possibility of Cycles,")

October 23, 1990: California Technology Institute.
October 25, 1990: University of California at Los Angeles.

October 26, 1990: University of California at Riverside.

(Presented my paper "Bayesian Rationality and Learning Without Common Priors," at the above schools.)

August 22-28, 1990: The Econometric Society Sixth World Congress, Barcelona, Spain.

June 28-30, 1990: Society for Economic Dynamics and Control Conference, University of Minnesota.

June 20-26, 1990: Conference on Learning and Expectations, Univ. of Sienna, Italy.

May 11-13, 1990: Mid-Western Math-Economics Meetings, Indiana Univ. (Presented my paper "Learning in Mis-Specified Models and the Possibility of Cycles," at above conferences.)

May 25-27, 1990: Conference on Economic Development, SUNY at Buffalo.

May 4, 1989: Seminar at University of California, Riverside.

April 28, 1989: Mid-Western Math-Economics Meetings, Purdue Univ.

April 10, 1989: Seminar at Columbia University, New York.

March 31, 1989: Seminar at New York University, New York.

March 9, 1989: Seminar at Cornell University, Ithaca.

In each of the above seminars I presented the paper "Bayes' Rational Equilibria."

Dec. 28-30, 1989: American Econ. Assoc. Meetings, Atlanta.

November, 1989: Southern Economics Association Meetings, Orlando.

April 21-23, 1989: NBER Conference on General Economic Equilibrium, University of Pennsylvania

July 17-22, 1989: Game Theory Conference, Ohio State University.

Feb. 5, 1988: Seminar at Boston College, Boston.

March 2, 1988: Seminar at New York, New York.

April 1988: Seminar at Rutgers University.

At the above three seminars the paper "The Convergence of Dynamic Bayesian Economic Models".

June 2-4, 1988: Seminar on "Learning From Endogeneous Data," Cornell University, Ithaca.

Dec. 28-30, 1987: American Economics Association Meetings, Chicago.

June 1987: Conference on Monetary Economics and Capital Theory, Northwestern University

June 1987: Econometrics Society Summer Meetings, Berkeley.

Feb. 9, 1987: Seminar at New York University.

Dec. 28-31, 1986: American Economics Association Meetings, New Orleans.

In the above two conferences the paper "The Convergence of Bayesian Posterior Processes" was presented.

Dec. 5, 1986: NSF-NBER conference on Theoretical Industrial

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Organization and Mathematical Economics, University of Pittsburgh.
Summer, 1986: Conference on Dynamic Econometrics, University of Texas.
In the above conference the paper "Optimal Control of an unknown linear process with Learning" with Nick Kiefer was presented.

Fall 1985: Mid-Western Mathematical Economics Meetings, Michigan State University.

Yaw Nyarko
November 26, 2007

REFERENCES

Professor David Easley
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Uris Hall
Cornell University
Ithaca N.Y. 14853
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Professor L. Blume
Department of Economics
Uris Hall
Cornell University
Ithaca N.Y. 14853
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Professor Tom Sargent
New York University
Dept. of Economics
19 West 4th Street.
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Yaw Nyarko
November 26, 2007

Graduate Students:

Soumitra Mallick (main advisor)

Gautam Barua

Allan Corns

Michele Piccione

Gustavo Rodriguez

Olympia Kalara

Chung Tse

Gabriel Duque

Gabriele Galati

Roberto Perli

and many more.