

Christopher C. Liu, PhD

Wyss House
Harvard Business School
Soldiers Field Road
Boston, MA 02163

Office: 617-495-5567
Cell: 617-335-8586
Email: cliu@hbs.edu

Education

Harvard Graduate School of Business, 2010 (expected)

Doctoral Candidate, Technology and Operations Management Unit

Thesis: Three Essays on Spatial Networks, Knowledge Production, and Performance

Committee: Toby E. Stuart (Chair), Pierre Azoulay, Lee Fleming

Massachusetts Institute of Technology, 2005

Ph.D., Biology

Thesis: Investigations of Tetraspanin Functions Using Large Extracellular Loops

Committee: Peter S. Kim (Co-Chair), Richard O. Hynes (Co-Chair)

Washington University in St. Louis, 1997

B.A., Biology

Research and Teaching Interests

Research Interests

Economic Sociology

Economic Geography and Spatial Networks

Innovation and Entrepreneurship

Teaching Interests

Strategic Management

Technology Strategy

Entrepreneurship

Papers and Publications

A Spatial Ecology of Knowledge Production: Scientists, Networks, and an Archipelago (job market paper).

An Ecological Succession Model of Social Structure: Newcomer Networks in a Knowledge Production Environment (work in progress).

Social Influence Given (Partially) Deliberate Matching: Career Imprints in the Creation of Academic Entrepreneurs. (with Pierre Azoulay & Toby E. Stuart, submitted)

- [Previous Title: Trickle-down Entrepreneurship: Prior Mentorship and the Transmission of Norms.]

(Life Science Publications)

Investigations of Tetraspanin Functions Using Large Extracellular Loops, (unpublished dissertation, 2005)

The Large Extracellular Loop of Murine CD9 is an Autonomously Folding Dimer, (with Hynes RO & Kim PS, working paper 2005).

Complete Replication of Hepatitis C Virus in Cell Culture *Science* 309 (5734) 623-6. (with Lindenbach BD, Evans MJ, Syder AJ, Wolk B, Tellinghuisen TL, Maruyama T, Hynes RO, Burton DR, McKeating JA, Rice CM, 2005)

Escherichia coli DegP Protease Cleaves Between Paired Hydrophobic Residues in a Natural Substrate: the PapA pilin. *J. Bacteriology* 184(20) 5762-71. (with Jones CH, Dexter P, Evans AK, Hultgren SJ, Hruby DE, 2002)

Residues SFQ (173-175) In the Large Extracellular Loop of CD9 Are Required For Gamete Fusion *Development*. 2002 Apr;129(8):1995-2002. (with Zhu GS, Miller BJ, Boucheix C, Rubinstein E, Hynes RO, Myles DG, Primakoff P, 2002)

Periplasmic Chaperone Recognition Motif of Subunits Mediates Quaternary Interactions in the Pilus. *EMBO J*. 17(21) 6155-67. (with Soto GE, Dodson KW, Ogg D, Liu C, Heuser J, Knight S, Kihlberg J, Jones CH, Hultgren SJ, 1998)

Ectopic Overexpression of Asparagine Synthetase in Transgenic Tobacco. *Plant Physiol*. 103: 1285-1290. (with Brears T, Liu C, Knight TJ, Coruzzi GM, 1993).

Seminar Presentations

Nov. 2008 *Trickle-down Entrepreneurship: Prior Mentorship and the Transmission of Norms* Paper presented, Policy Group Seminar/Innovation & Creativity Seminar, UCLA, Los Angeles

Oct. 2008 *Trickle-down Entrepreneurship: Prior Mentorship and the Transmission of Norms* Paper presented at Productivity Lunch, NBER

Conference Presentations

Oct. 2009 *Social Influence Given (Partially) Deliberate Matching: Career Imprints in the Creation of Academic Entrepreneurs*. Technology Transfer Society, Greensboro, North Carolina

May. 2009 *A Spatial Ecology of Knowledge Production: Scientists, Networks, and an Archipelago*. Consortium for Cooperation and Competition, Copenhagen, Denmark

Nov. 2008 *Trickle-down Entrepreneurship: Prior Mentorship and the Transmission of Norms* Paper presented, Roundtable on Engineering & Entrepreneurship Research, GeorgiaTech, Atlanta

- June 2008 *Trickle-down Entrepreneurship: Prior Mentorship and the Transmission of Norms* Paper presented at Technology Entrepreneurship and Institutions conference, Madison, Wisconsin.
- May 2007 *Being aware or being able: An empirical test of diffusion in the mouse genetics community*, research presented at London Business School Doctoral Conference

Academy of Management Activities

- Aug. 2009 *Networks, Propinquity and Knowledge* Showcase Symposium Chair, BPS/OMT/TIM division, at the Annual meeting of the Academy of Management, Chicago, IL.
- Aug. 2009 *Networks, Propinquity and Knowledge* Showcase Symposium paper presented, BPS/OMT/TIM division, at the Annual meeting of the Academy of Management, Chicago, IL.
- Aug. 2009 *Social Influence Given (Partially) Deliberate Matching: Career Imprints in the Creation of Academic Entrepreneurs* Symposium paper presented, BPS division, at the Annual meeting of the Academy of Management, Chicago, IL.
- Aug. 2008 *Trickle-down Entrepreneurship: Prior Mentorship and the Transmission of Norms* Paper presented, OMT division, at the Annual meeting of the Academy of Management, Anaheim, CA
- Aug. 2008 *New Product Development and Adoption: Organizational and Strategic Issues in the Management of the New Product Development Process*, Session Chair, TIM division, the Annual meeting of the Academy of Management, Anaheim, CA
- Aug. 2008 *Adaptation and Change: Learning and New Product Development*, Session Discussant, TIM division, the Annual meeting of the Academy of Management, Anaheim, CA
- Aug. 2007 *Management of Science*, Symposium Chair, BPS/OMT/TIM division, at the Annual meeting of the Academy of Management, Philadelphia, PA
- Aug. 2007 *Trickle down patenting: Prior Mentorship and the Transmission of Norms* Symposium Paper presented, OMT/TIM/BPS symposium, at the Annual meeting of the Academy of Management, Philadelphia, PA

Member, BPS/OMT/TIM division
 Reviewer, OMT/TIM division

Life Science Conferences

- June 2004 FASEB International Tetraspanin Conference, invited speaker
June 2002 FASEB International Tetraspanin Conference, invited speaker
July 1999 Gordon Fertilization Research Conference

Teaching and Course Development

- 2008, 2009 Facilitator, Leading Change and Organizational Renewal
Executive Education, Harvard Business School
2006 Teaching Assistant, Cross Border Innovation
Harvard University Summer School
2001, 2002 Laboratory Head, Genes and Cells Boot Camp
Knight Science Journalism Fellowship Program, MIT
2000 Teaching Assistant & Section Leader, Introduction to Biology (for non-Majors)
Massachusetts Institute of Technology
1999 Teaching Assistant & Section Leader, Undergraduate Biochemistry
Massachusetts Institute of Technology

Awards and Honors

- 2008 Kauffman Foundation Dissertation Fellow
2005 CCR Proteomics Pilot Grant (\$50k)
1993-1997 Compton Scholarship
Full, merit scholarship at Washington University in St. Louis

Inventions

USPatent # **6,306,619**

DegP periplasmic protease: a new anti-infective target and an in vitro assay for DegP protease function. Jones HC, Liu CC, Hultgren SJ, Hruby, DE, Franke CA, Evans AK

Selected Coursework

Microeconomic Theory	(Green, Miller, Avery)
Management of Technological Innovation	(Pisano, Gino)
Econometrics I	(Hausman, Chernozhukov)
Theoretical and Empirical Perspectives on Entrepreneurship	(Lerner)
Labor Economics	(Katz, Fryer)
Sociological Perspectives on Entrepreneurship	(Stuart, Tripsas)

Innovation and Organizations
Organizational Economics
Social Network Analysis
Economics and Sociology of Science and Technology

(Tushman)
(Baker, Gibbons)
(Marsden)
(Azoulay, Freeman, Murray)

Professional Service

Ad Hoc Reviewer, *Management Science*, *Research Policy*

Professional Affiliations

Academy of Management
American Sociological Association

Languages

English- Native and fluent
Mandarin- Native and fluent
French- Rudimentary, but actively learning.
Spanish- Basic and waning.

Birthplace: Jan 26, 1975; Queens, NY, USA.

Marital Status: Married to Mariette Vogelezang (Dutch-national, born and raised in Lausanne, Switzerland) with Milla (born 2006) and Oban (born 2008)

Other: Interned as a journalist at the St. Louis Post-Dispatch. Avidly raced as a junior road cyclist. Rowed crew in college.

References

Toby E. Stuart (chair and adviser)

Charles E. Wilson Professor of Business
Harvard Business School
Soldiers Field Road, Boston, MA 02163
(617) 496-4626 / tstuart@hbs.edu

Pierre Azoulay (adviser)

Associate Professor of Strategy
MIT/Sloan School of Management
50 Memorial Drive-E52-555
(617)258-9766 / pazoulay@mit.edu

Lee Fleming (adviser)

Weatherhead Professor of Business
Harvard Business School
Soldiers Field Road, Boston, MA 02163
(617) 496-4059 / lfleming@hbs.edu

(Scientific References)

Peter S. Kim

President
Merck Research Laboratories
West Point, PA 19446
peter_kim@merck.com

Richard O. Hynes

Ludwig Professor for Cancer Research
MIT/Center for Cancer Research
Cambridge, MA 02139
(617)253-6422/rohynes@mit.edu
