

CURRICULUM VITAE

Andrew S. Yang
Department of Liberal Arts & Science
The School of the Art Institute of Chicago
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POSITIONS / EDUCATION

Assistant Professor of Biology & the Liberal Arts
Affiliate Faculty Visual & Critical Studies
The School of the Art Institute of Chicago (SAIC), Chicago, IL (2005-present)

Visiting Scholar, Department of Biology, Duke University, Durham, NC (2004-2005)

Ph.D. Biology
(minor subject specialization, Philosophy of Science)
Duke University, Durham, NC (May 2004)

Assistant Language Teacher, Japan Exchange and Teaching Program
Iwate, Japan (1995-97)

B.S. Chemistry/Biology, *magna cum laude*
Juniata College, Huntingdon, PA (May 1995)

Study exchange, Leeds University, Leeds, United Kingdom (1992-1993)

PUBLICATIONS

Yang, A.S. & Abouheif, E. Gynandromorphs: Hints of the modularity and evolvability of ant social systems?
(*manuscript in preparation*)

Cover, S., King, J., Yang, A.S., Moreau, C., & Tschinkel, W. The biogeography & life history of *Pheidole morrisi*.
(*manuscript in preparation*)

Yang, A.S. Interdisciplinarity as Critical Inquiry: the Science/Art Interface (*in review*)

Yang, A.S. 2009. (Letters) The 'Starry Skies' of Astronomical Medicine. *The American Biology Teacher*,
71(9): 520.

Yang, A.S. 2008. Matters of demarcation: Philosophy, biology and the emerging fraternity between
disciplines. *International Studies in the Philosophy of Science* 22(2): 211-225.

Yang, A.S. 2007. Thinking outside the embryo: The superorganism as a model for EvoDevo
studies. *Biological Theory* 2(4): 399-408.

Yang, A.S. 2007. Is Oprah Zulu? - Sampling & seeming certainty in DNA ancestry testing. *Chance*
20(1): 32-39.

Yang, A.S. 2006. Seasonality, division of labor, and dynamics of colony-level nutrient storage in the ant *Pheidole morrisi*. *Insectes Sociaux*, 53(4): 456-462.

Yang, A.S. 2006. Thesis: Antythesis – Considering participation among the tiny. In *Participatory Autonomy*, pp. 74-83 (Rick Gribenas, ed.), Brooklyn, NY: Autonomedia.

Yang A.S., Martin, C.H. & H.F. Nijhout. 2004. Geographic variation in caste structure among ant populations. *Current Biology* 14(6): 514-519.

Yang, A.S. 2001. Modularity, evolvability and adaptive radiations: A comparison of the hemi- and holometabolous insects. *Evolution and Development* 3(2): 1-14.

PROFESSIONAL RESEARCH SERVICE

- Invited peer-reviewer for original research manuscripts submitted to the following journals:

Current Biology (Elsevier Press), *Evolution and Development* (Blackwell Press), *Behavioral Ecology* (Oxford University Press), *Western North American Naturalist* (BYU Press)

TALKS, PANELS AND EXHIBITIONS

BIOLOGY / PHILOSOPHY OF BIOLOGY RELATED

"Seeing the Cellular: Muse & Material in Contemporary Art." Invited speaker, Pathology Grand Rounds. Invited talk. Children's Memorial Hospital, Chicago, IL. November 2009.

"Bio-line" Modern Mondays series, invited discussant. SAIC, Chicago, IL. November 2009.

"The Ecology of Nature." Invited course guest. Illinois Institute of Technology, Chicago, IL. October 2009

"What do Artists Know?" panelist. Stone Summer Theory Institute, SAIC, Chicago, IL. September 2009.

Geography, Genealogy, Making Places (Venus, Slovakia, Brazil, Chicago), invited talk. The Orientation Center. March 2009.

ASU-MBL History of Biology Seminar: Theory in the Life Sciences, participant Woods Hole, MA. July 2009.

"Honing Biology: the philosophy of science as both lumpers and splitters." Presented at the conference: Does Philosophy Matter to Science? SUNY Stony Brook, March 2007.

Liberty Fund Colloquia. Invited discussant:

Key West, FL. December 2006.

Charleston, SC USA. March 2006.

Glen Arbor MI USA. July 2005.

"One size fits all? The individual, the caste, and colony in superorganismal size." Presented at the 15th International Congress of the International Union for the Study of Social Insects (IUSSI), Washington DC, USA. July 2006. (+ published Abstract)

"Art? Science Fiction? Talking About the 'Creative' Potential of Genes." Presentation for the Graduate Program in Genetic Counseling Genetics Lecture Series. Northwestern University's Center for Genetic Medicine, Chicago, IL. May 2006.

"Divergent Histories, Divergent Views? - A Comparison of Conceptual Perspectives among Japanese and North American Evolutionary Biologists." Presented at the International Society for the History, Philosophy, and Social Studies of Biology (ISHPSSB) 2005, Guelph, Canada. (+ published Abstract)

"Evidence for the micro-evolution of worker caste structure in ants (*Pheidole morrisi*)." Presented at 56th Meeting of the Society for the Study of Evolution, Colorado State University, Fort Collins, CO USA. June, 2004. (+ published Abstract)

"Microevolution of adaptive demography among ant populations." Selected presentation at the 2002 Duke University Graduate Student Symposium. Duke University, Durham, NC USA. November, 2002.

"Beyond the Embryo: The Super-organism in Evolution and Development." Presented at the 1st Annual Conference of Recent Work in the Philosophy of Biology: The Relationship between Evolution and Development, Duke University, Durham, NC USA. June 2002.

"Ants in Forest Ecology." Presented at the Department of Forestry, Virginia Polytechnic Institute and State University, Blacksburg, VA USA. December, 2000.

BIOLOGY + ART & DESIGN RELATED

Co-curation of exhibition & events series *Biological Agents: Artistic interventions in our growing bio-culture*. Gallery 400. University of Illinois Chicago, Oct. 14 - November 22, 2008.

Project Biocultures Bio-Art Panel Discussion panelist (with Lennard Davis and Lori Andrews) University of Illinois Chicago, November 5, 2008.

Workshop co-leader, Image & Meaning workshops on scientific image design, at:

- Harvard University, Initiative in Innovative Computing (IM2.4), Cambridge, MA. October, 2007.
- Apple Computers (IM2.3), Cupertino, CA. February, 2007.
- Illinois Institute of Technology (IM2.2), Chicago, IL. September, 2006.

Director of "The Small Science Collective," a science & culture zine project focused on public engagement in science. We create, print and distribute over 50 titles. The project has participated in formal venues such as the "4th Annual Printer's Ball" 2008 | The Chicago Museum of Contemporary Art's "Hip Lit Fair", 2008 | The Small Science Collective / COPUS Year of Science 2009 Zine-a-Thon.

GROUP EXHIBITIONS AND SCREENINGS

Animal Sounds. UIC Hot Media Series, Chicago, IL. Oct. 2009 | Faketure Exhibit #2. MVSEVM. Chicago, IL, Oct. 2009 | Film Festival. Beverly Arts Center, Chicago, IL. Sept. 2008 | Seajon & Friends – animated shorts curated by Kat Parker. Old Gold Exhibitions. Chicago, IL. July 2008 | Phenomena(I). SPACES Gallery, Cleveland, OH. Feb-March 2008 | Endless Forms: Engaging Evolution. Work Gallery, University of Michigan. Ann Arbor, MI. Feb-March 2006.

SELECTED GRANTS AND AWARDS

- D. S. Stone Named Instructorship Fellow in Biology – Duke University (2003-2004)
- Julian Price Fellow, Duke University (2003)
- NSF/JSPS Summer Research Fellow – University of Tokyo, Japan (2003)
- Travel Grant, International Union for the Study of Social Insects, Japan (2002)
- Vienna Int'l Summer University Fellowship, Philosophy of Science (2001, 2004)
- Biology Department Grant-in-Aid, Duke University (2001)
- Sigma Xi Grant-in-Aid of Research (2000)
- Foreign Language Area Studies Fellowship, US Dept. of Education (1998, 1999)

MEMBERSHIPS

- Sigma Xi Scientific Society
- The International Society for the Study of Social Insects
- International Society for the History and Philosophy of Biology
- Society for Integrative and Comparative Biology
- Union of Concerned Scientists

TEACHING

My courses cover a breadth of topics and approaches in the biological sciences, philosophy of science, visual studies, as well as the interfaces between the natural sciences and art & design practices.

Assistant Professor

- Life's Designs (S10)
- The Ecology of Food (F09, S10)
- Animals in the Urban Jungle (S09)
- Japan: Cultural Contexts / Graphic Narratives study trip [with C. Donner, PTDW] (Su09)
- Chimeric Practices: Art/Science & Hybrid Understanding [with A. Strathmann, ATS] (F08)
- Tutorial in Visual & Critical Studies (S08)
- Eco & Biosystems (S08)
- Critical Genetics (F/S05, S06, S08)
- Japan: Cultural Contexts / Graphic Narratives study trip [with S. Murashige, ArtHis] (Su07)
- Evolution & Biodiversity (F/S05, S06, S07)
- Visualizing Biological Phenomena (F/S06, F07)
- The Insect World (F06, F07, F08)
- Biomimicry & Design [with R. Dalvesco, AIADO] (S07)

Stone Named Instructor Fellow

- Biological Categories & Scientific Practice, Duke University (2004)

Teaching Assistant at Duke University for:

- The Evolution of Animal Form; Entomology; Organismal Evolution; AIDS and Emerging Diseases; Principles of Biology

Mentor of a Howard Hughes Undergraduate Summer Research student, Chris Martin, on an independent research project on ant behavioral ecology, Duke University, (June-Dec. 2002).

Assistant High School English Teacher (JET Program)

Grammar, conversation, and teaching research in the Japanese high school system, Iwate, (1995-1997)