

Yuen-Jong Liu, M.D.

Mobile Phone: (617) 308-6238
Email: hercules@post.harvard.edu
Website: <http://jong.gradivus.org>
Place of Birth: New York City, NY

Education

2009	M.D.	Medicine	Yale University
2004	B.A., summa cum laude	Computer Science and Biochemical Sciences	Harvard University

Postdoctoral Training

2009–	Resident	General Surgery	Beth Israel Deaconess Medical Center
2009–	Clinical Fellow	Surgery	Harvard Medical School

Professional Societies

2009–	American College of Surgeons	
2009–		Resident Member
2009–	American Medical Association	
2009–		Resident Member

Honors and Prizes

2008	Completion of Microvascular Training Course	Yale Section of Plastic Surgery
2008	Gustaf E. Lindskog International Travel Award	Yale Surgical Society
2004	Highest Honors for Undergraduate Thesis	Depts. of Computer Science and Biochemical Sciences
2004	Phi Beta Kappa Society Membership	Phi Beta Kappa
2004	1 st Place in the For-Profit Track	Harvard Entrepreneurial Contest
2001–2002	Member of Harvard Team 1, Regional Qualifier	ACM International Collegiate Programming Contest
2001	Finalist, Honored Scholars & Artists Program	National Alliance for Excellence
2000	Presidential Scholar (Massachusetts)	United States Presidential Scholars Program

Funded Projects

2008–2009	The Impact of Mild Intra-Operative Hypothermia on Free Flap Transfers Yale University School of Medicine Medical Student Research Fellowships Investigator The goal was to determine the relationship between core body temperature and success rates of free tissue transfers.
2007–2008	Surface Area Measurement of the Female Breast: Correlation with Breast Volume and Aesthetic Shape Yale University School of Medicine Medical Student Research Fellowships Investigator The goal was to determine the relationship between volume, surface area, and anthropomorphic measurements that results in an aesthetically pleasing shape, with the ultimate goal of optimizing patient satisfaction in cosmetic and reconstructive breast surgeries.
2007–2008	Surface Area Measurement of the Female Breast: Correlation with Breast Volume and Aesthetic Shape

- James G. Hirsch, M.D., Endowed Medical Student Research Fellowships
Investigator
As above.
- 2005 Analysis of the Pseudogenes of Glyceraldehyde-3-phosphate Dehydrogenase in Human and Mouse
Yale University School of Medicine First-Year Medical Student Summer Research Fellowship
Investigator
The goals were to analyze syntenic regions between the human and mouse genomes, identify the pseudogenes that were present in the common ancestors of humans and mice, and extrapolate the past form of GAPDH.
- 2002–2005 An Oligonucleotide Microarray-Based Method for Determining Nucleosome Positioning in *S. cerevisiae*
Harvard College Research Program / Bauer Center for Genomics Research, Harvard University
Investigator
The goals were to design and implement a microarray-based hidden Markov model (HMM) to determine nucleosome positions on the yeast genome, accounting for the measurement noise, potential cross-hybridization artifacts, consensus length of nucleosome-protected DNA, variability of linker lengths, and data from biological and technical replicates.
- 2002 Robustness of the *Drosophila* Segment Polarity Network
Bauer Center for Genomics Research Summer Research Program, Harvard University
Investigator
The goal was to assess the robustness of the *Drosophila* segment polarity gene network using a model based on non-linear ordinary differential equations to simulate interactions between mRNAs and proteins.
- 2001 Open Mind Common Sense
MIT Media Lab
Student
The goal was to develop programs to parse and process publicly contributed English sentences into a knowledge database for the Open Mind Common Sense project, seeking to teach computers “common sense” or seemingly obvious pieces of information that an average person knows and often takes for granted.

Unfunded Projects

- 2008–2009 Differences in Nasal Shape Preferences between People with Different Demographic Profiles
Investigator
The goal was to determine the differences in nose shape preferences among plastic surgeons and in the general population in different countries, as cultural differences must be considered for new techniques and aesthetic outcomes.
- 2008–2009 Optimizing the Aesthetics of the Brachioplasty Scar
Investigator
The goal was to determine the most aesthetically acceptable scar and contour from the most prevalent techniques available today: a short anterior scar, an extended anterior scar with possibly improved contour, and a posterior scar.

Local Invited Presentations

No presentations below were sponsored by outside entities.

- 2009 The Impact of Mild Intra-Operative Hypothermia on Free Flap Transfers / Residents’ Research Day
Section of Plastic Surgery, Yale University
- 2008 Surface Area Measurement of the Female Breast / Residents’ Research Day
Section of Plastic Surgery, Yale University
- 2008 Providing Surgical Care to the Poor and Disadvantaged / Grand Rounds
Department of Surgery, Yale University

Regional Invited Presentations

No presentations below were sponsored by outside entities.

2009	The Impact of Mild Intra-Operative Hypothermia on Free Flap Transfers / Annual Meeting New England Society of Plastic and Reconstructive Surgeons
2008	Surface Area Measurement of the Female Breast / Annual Meeting New England Society of Plastic and Reconstructive Surgeons

Clinical Activities

2010–	Medical Staff	Boston Red Sox, Fenway Park	1–2 games/season
2007–2009	Microvascular Training Program	Section of Plastic Surgery, Yale University	8 hours/month
2008, Jan. 12–20	Hand Surgery Mission	Hands Help (Honduras)	12 hours/day

Peer Reviewed Publications

1. **Liu, Y.-J.**, Thomson, J.G. Ideal anthropomorphic values of the female breast: correlation of pluralistic aesthetic evaluations with objective measurements. *Ann Plast Surg*. Accepted.
2. **Liu, Y.-J.**, Hirsch, B.P., Shah, A.A., Reid, M.A., Thomson, J.G. Mild intra-operative hypothermia reduces free tissue transfer thrombosis. *J Reconstr Microsurg*. Accepted.
3. **Liu, Y.-J.**, Thomson, J.G. Reply. Re: Surface area measurement of the female breast: phase I. Validation of a novel optical technique. *Plast Reconstr Surg*. 2009 Dec;124(6):2194–5.
4. **Liu, Y.-J.** Aesthetics of the Female Breast: Correlation of Pluralistic Evaluations with Volume and Surface Area. *Yale J Biol Med*. 2009 Dec;82(4):181–229. Sub-article 45.
5. **Liu, Y.-J.**, Zheng, D., Balasubramanian, S., Carriero, N., Khurana, E., Robilotto, R., Gerstein, M.B. Comprehensive analysis of the pseudogenes of glycolytic enzymes in vertebrates: the anomalously high number of GAPDH pseudogenes highlights a recent burst of retrotranspositional activity. *BMC Genomics*. 2009 Oct 16;10(1):480.
6. Thomson, J.G., **Liu, Y.-J.**, Restifo, R.J., Rinker, B.D., Reis, A. Surface area measurement of the female breast: phase I. Validation of a novel optical technique. *Plast Reconstr Surg*. 2009 May;123(5):1588–96.
7. Balasubramanian, S., Zheng, D., **Liu, Y.-J.**, Fang, G., Frankish, A., Carriero, N., Robilotto, R., Cayting, P., Gerstein, M. Comparative analysis of processed ribosomal protein pseudogenes in four mammalian genomes. *Genome Biol*. 2009 Jan 5;10(1):R2.
8. Yuan, G.-C., **Liu, Y.-J.**, Dion, M., Slack, M., Wu, L.F., Altschuler, S.J., Rando, O.J. Genome-scale identification of nucleosome positions in *S. cerevisiae*. *Science*. 2005 Jul 22;309(5734):626–30.

Theses

Aesthetics of the Female Breast: Correlation of Pluralistic Evaluations with Volume and Surface Area.

Submitted to the Yale University School of Medicine in partial fulfillment of the requirements for the degree of Doctor of Medicine, Yale University School of Medicine, New Haven, Connecticut. 2009.

<http://ymtdl.med.yale.edu/theses/available/etd-04162009-165423/>

An Oligonucleotide Microarray-Based Method for Determining Nucleosome Positioning in *Saccharomyces cerevisiae*.

Presented to the Departments of Computer Science and Biochemical Sciences in partial fulfillment of the honors requirements for the degree of Bachelor of Arts, Harvard College, Cambridge, Massachusetts. 2004.

http://jong.gradivus.org/pdfread.cgi?file=ba_thesis