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The Aesthetic Center
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Employment

2018– Plastic and Hand Surgeon The Aesthetic Center (Darien, CT)

Certification

2019 Board Certified in Plastic Surgery American Board of Plastic Surgery (Certificate #09580)
2015 Board Certified in General Surgery American Board of Surgery (Certificate #060418)

Education

2004–2009 M.D. Medicine Yale University
2000–2004 B.A., summa cum laude Computer Science and Biochemical Sciences Harvard University

Postdoctoral Training

2017–2018 Fellow Hand and Microsurgery Yale University
2014–2017 Resident Plastic Surgery University of North Carolina at Chapel Hill
2009–2014 Resident General Surgery Beth Israel Deaconess Medical Center
2009–2014 Clinical Fellow Surgery Harvard Medical School

Professional Societies

2015– American Society of Plastic Surgeons Active Member
2015– American Council of Academic Plastic Surgeons Active Member
2024– New England Society of Plastic and Reconstructive Surgeons Active Member
2022– Fairfield County Medical Association Active Member

Hospital Leadership Positions

2022– Chief, Maxillofacial Surgery Norwalk Hospital
2022– Surgical Executive Committee Norwalk Hospital
2022– Clinical Competency Committee Stamford Hospital

Peer Reviewed Publications

1. Chettri, S.R., Pignone, M.P., Deal, A.M., Sepucha, K.R., Blizard, L.B., Huh, R., **Liu, Y.-J.**, Ubel, P.A., Lee, C.N. Patient-reported outcomes of breast reconstruction: does the quality of decisions matter? *Ann Surg Oncol*. 2022 Nov 27.
2. Wu R.T., Walker M.E., Peck C.J., **Liu Y.-J.**, Hetzler P., Le N.K., Smetona J., Thomson, J.G. Differential pulley release in trigger finger: a prospective, randomized clinical trial. *Hand (NY)*. 2021 Mar 1.
3. Lee, C.N., Pignone, M.P., Deal, A.M., Blizard, L., Hunt, C., Huh, R., **Liu, Y.-J.**, Ubel, P.A. Accuracy of predictions of patients with breast cancer of future well-being after immediate breast reconstruction. *JAMA Surg*. 2018 Feb 7:e176112.
4. Lee, C.N., Deal, A.M., Huh, R., Ubel, P.A., **Liu, Y.-J.**, Blizard, L., Hunt, C., Pignone, M.P. Quality of patient decisions about breast reconstruction after mastectomy. *JAMA Surg*. 2017 Aug 1;152(8):741–8.
5. **Liu, Y.-J.**, Bynum, D.K., Hultman, C.S. Response to video capture of plastic surgery procedures using the GoPro HERO 3+: patient privacy and compliance. *Plast Reconstr Surg Glob Open*. 2015;3:e573.
6. Broer, P.N., Juran, S., Walker, M.E., Ng, R., Tanna, N., **Liu, Y.-J.**, Shah, A., Patel, A., Persing, J.A., Thomson, J.G. Aesthetic breast shape preferences among plastic surgeons. *Ann Plast Surg*. 2015 Jun;74(6):639–44.
7. **Liu, Y.-J.**, Deal, A., Pignone, M., Ubel, P., Burdick, L., Ollila, D.W., Lee, C. The quality of decisions about breast

- reconstruction. *Plast Reconstr Surg*. 2015 Apr;135(4):1236.
8. Broer, P.N., Juran, S., **Liu, Y.-J.**, Walker, M.E., Ng, R., Persing, J.A. The impact of geographic, ethnic, and demographic dynamics on the perception of beauty. *J Craniofac Surg*. 2014 Mar;25(2):e157–61.
 9. Samra, S., Samra, F., **Liu, Y.-J.**, Sawh-Martinez, R., Persing, J.A. Optimal placement of a brachioplasty scar: a survey evaluation. *Ann Plast Surg*. 2013 Oct;71(4):329–32.
 10. **Liu, Y.-J.**, Siracuse, J.J., Gage, T., Hauser, C.J. Phlegmonous gastritis presenting as portal venous pneumatosis. *Surg Infect*. 2013 Apr;14(2):221–4.
 11. Broer, P.N., Buonocore, S., Morillas, A., **Liu, Y.-J.**, Tanna, N., Walker, M., Ng, R., Persing J.A. Nasal aesthetics: a cross-cultural analysis. *Plast Reconstr Surg*. 2012 Dec;130(6):843e–850e
 12. **Liu, Y.-J.**, Thomson, J.G. Ideal anthropomorphic values of the female breast: correlation of pluralistic aesthetic evaluations with objective measurements. *Ann Plast Surg*. 2011 Jul;67(1):7–11.
 13. **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*. 2011 Feb;27(2):121–6.
 14. Samra, S., Sawh-Martinez, R., **Liu, Y.-J.**, Samra, F., Persing, J.A. Optimal placement of brachioplasty scar: a survey evaluation. *Plast Reconstr Surg*. 2010 Oct;126(4S):77.
 15. **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.
 16. **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.
 17. **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.
 18. 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.
 19. 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.
 20. 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.

Books and Chapters

1. Hultman, C.S., **Liu, Y.-J.** Laser Burn Scar Revision. *Operative Techniques in Pediatric Plastic and Reconstructive Surgery*. Philadelphia, PA: Wolters Kluwer; 2020.
2. Hultman, C.S., **Liu, Y.-J.** Fat Grafting for Nerve Entrapment Within Burn Scars. *Operative Techniques in Pediatric Plastic and Reconstructive Surgery*. Philadelphia, PA: Wolters Kluwer; 2020.
3. Hultman, C.S., **Liu, Y.-J.** Laser Burn Scar Revision. *Operative Techniques in Plastic Surgery*. Philadelphia, PA: Wolters Kluwer; 2019.
4. Hultman, C.S., **Liu, Y.-J.** Fat Grafting for Nerve Entrapment Within Burn Scars. *Operative Techniques in Plastic Surgery*. Philadelphia, PA: Wolters Kluwer; 2019.
5. **Liu, Y.-J.** The Theory and Practical Use of the Z-Incision for the Relief of Scar Contractures. *50 Studies Every Plastic Surgeon Should Know*. Boca Raton, FL: CRC Press; 2014.

Local Invited Presentations

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| 2022 | Neurotized Breast Reconstruction / Grand Rounds
Department of Surgery, Norwalk Hospital |
| 2022 | Neurotized Breast Reconstruction / Grand Rounds
Department of Surgery, St. Mary's Hospital |
| 2022 | Neurotized Breast Reconstruction / Grand Rounds
Department of Surgery, Stamford Hospital |
| 2021 | Facial Trauma / Grand Rounds
Department of Surgery, Stamford Hospital |
| 2020 | Facial Trauma / Grand Rounds
Department of Surgery, Stamford Hospital |

2020	Limb Salvage / Grand Rounds Department of Surgery, Norwalk Hospital
2019	Limb Salvage / Grand Rounds Department of Surgery, Stamford Hospital
2018	Revascularization and Replantation for the Hand / Grand Rounds Department of Surgery, Norwalk Hospital
2018	Revascularization and Replantation for the Hand / Grand Rounds Department of Surgery, Stamford Hospital
2018	Trapeziometacarpal Arthritis / Grand Rounds Section of Plastic Surgery, Yale University
2013	Hand Transplantation / Grand Rounds Department of Surgery, Saint Vincent Hospital (Worcester, MA)
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

2021	A Case Series of Reverse-Flow Anterolateral Thigh Perforator Flap / Annual Meeting Connecticut Chapter of the American College of Surgeons First Place Paper in the Plastic Surgery Category
2017	Steroid Injection in Carpal Tunnel Syndrome: A Critical Analysis / Semi-Annual Meeting Connecticut Society of Plastic Surgeons
2017	Steroid Injection in Carpal Tunnel Syndrome: A Critical Analysis / Annual Meeting New England Hand Society
2017	The Role of the A0 Pulley in Trigger Finger: A Cadaver Model / Annual Meeting New England Hand Society
2015	Surgical Release of Spastic Hand Contractures / Annual Meeting North Carolina Society for Surgery of the Hand
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

National Invited Presentations

2022	A Case Series of Reverse-Flow Anterolateral Thigh Perforator Flap for Peri-Patellar Wound Coverage / Annual Meeting American Society of Plastic Surgeons
2015	Patient-Reported Outcomes Of Breast Reconstruction After Mastectomy: A Prospective, Longitudinal Study / Annual Meeting American Society of Plastic Surgeons
2015	The Quality of Decisions about Breast Reconstruction / Annual Meeting American Association of Plastic Surgeons
2010	Optimal Placement of Brachioplasty Scar: A Survey Evaluation / Annual Meeting American Society of Plastic Surgeons

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
2000	Lucent Global Science Scholar	Lucent Technologies
2000	Winner, Honored Scholars & Artists Program	National Alliance for Excellence
1998–2000	National Champion	National Ocean Sciences Bowl (NOSB)
1996–2000	Qualifier	USA Mathematical Olympiad (USAMO)
2000	Semi-finalist	United States Physics Olympiad
2000	Regional Champion	Physics Bowl
1999	2nd Place, New England Level	National Chemistry Olympiad
1996–2000	League Scoring Champion	Massachusetts Mathematics League
1997–2000	Math Team Captain	Lexington High School (Lexington, Massachusetts)

Funded Projects

2014–2016	Patient Preferences for Breast Reconstruction after Mastectomy National Cancer Institute K07 Award under Clara Lee, M.D. Investigator The goals were: (1) to evaluate the quality of decisions about breast reconstruction by assessing patient knowledge, concordance between preferences and treatment, and decision making processes; (2) to assess the accuracy of patients' preoperative predictions about their post-operative body image and well-being and the association between prediction accuracy and satisfaction with decisions; and (3) to assess the effects of breast reconstruction on quality of life and body image and the potential modification of these effects by preference concordance.
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 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 <i>S. cerevisiae</i> 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 <i>Drosophila</i> Segment Polarity Network Bauer Center for Genomics Research Summer Research Program, Harvard University Investigator

- 2001 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.
Open Mind Common Sense
MIT Media Lab
Investigator
The goal was to develop programs to parse and process 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.
- 1999 Research Sciences Institute (RSI)
MIT
Research Student
I studied number theory, combinatorics, probability, and other topics related to science and math. I completed a project, “On the Least Number of Ones Needed to Represent a Positive Integer Using Only Addition, Multiplication, and Parentheses,” which I entered the Siemens Westinghouse and the Intel Westinghouse competitions.

Unfunded Projects

- 2014–2015 UNC Breast Reconstruction Network
Administrator / Webmaster
The goal was to create an online social network for breast cancer patients under patient-centered care principles. The website is designed to limit misinformation, to foster communication between patients and surgical care teams, to engage patients to learn about breast reconstruction, and to connect patients with mentors.
- 2011–2012 The Impact of Mild Intra-Operative Hypothermia on Free Flap Transfers
Investigator
The goal was to determine the relationship between core body temperature and success rates of free tissue transfers, using data from the Division of Plastic Surgery at Beth Israel Deaconess Medical Center to verify the results from Yale University.
- 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.

Clinical Activities

2018, Apr 13–21	Pediatric Hand Surgery Mission	Hand Help (Peru)	12 hours/day
2016, Sep 16–25	Pediatric Plastic Surgery Mission	Surgicorps International / CURE Zambia	12 hours/day
2014–present	Webmaster	Liu Surgery (liusurgery.org)	
2014–2015	Administrator / Webmaster	UNC Breast Reconstruction Network	
2008–2021	Webmaster	Yale Hand Surgery	
2008–2021	Webmaster	Hand Help Medical Mission	
2010–2011	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	Hand Help (Honduras)	12 hours/day

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.

https://liusurgery.org/pdfread.cgi?file=md_thesis

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.

https://liusurgery.org/pdfread.cgi?file=ba_thesis