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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 Educators in Plastic Surgery 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, Surgery Residency 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

- 2024 Bit By An Electric Bike: Utilization of Peroneus Brevis Flap In A Pediatric Patient / Annual Meeting
Connecticut Chapter of the American College of Surgeons
First Place Paper in the Plastic Surgery Category
- 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

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| 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 *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
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

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| 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