

The Faculty of Medicine of Harvard University
Curriculum Vitae

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Division of Plastic Surgery

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Education:

05/2003- 05/2007	BS	Human Biology	University of Texas at Austin Austin, TX
05/2007- 05/2011	MD	Medicine	McGovern Medical School Houston, TX
05/2020- 05/2023	MPH	Healthcare Management	Harvard T.H. Chan School of Public Health

Postdoctoral Training:

07/11-07/12	Intern	General Surgery	The Johns Hopkins Hospital Baltimore, MD
07/12-07/13	Resident	Plastic Surgery	The Johns Hopkins Hospital Baltimore, MD
07/13-07/14	Research Fellow	Plastic Surgery	The Johns Hopkins Hospital Baltimore, MD
07/14-07/18	Resident	Plastic Surgery	The Johns Hopkins Hospital Baltimore, MD
07/18-07/19	Fellow	Microvascular Surgery	MD Anderson Cancer Center Houston, TX

Faculty Academic Appointments:

09/19-	Assistant Professor	Surgery	Harvard Medical School
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Appointments at Hospitals/Affiliated Institutions:

07/18-07/19	Clinical Specialist	Plastic Surgery	MD Anderson Cancer Center
09/19-	Associate Surgeon	Plastic Surgery	Brigham and Women's Hospital
09/19-	Associate Surgeon	Plastic Surgery	Brigham and Women's Faulkner Hospital

Faculty Membership in Harvard Initiatives, Programs, Centers, and Institutes

09/19-	Faculty Member	PROVE Center	Brigham and Women's Hospital
09/19-	Faculty Member	Dana Farber Cancer Center	Dana Farber Cancer Institute

Other Professional Positions:

05/20-	Founder, Board Member	Calisto, Inc.	2hrs/month
10/21-	Scientific Advisory Board	Healshape, Inc.	1hr/month
10/23-	Founder, Board Member	SeroSafe, Inc	4hrs/week
10/24-	Special Government Employee	US Food and Drug Administration	6 days per year

Major Administrative Leadership Positions:**Local**

2016-2018	Board of Directors	The Hospice Cup of Maryland
2017-2018	Administrative Chief Resident	The Johns Hopkins Hospital
2019-	Harvard Plastic Surgery Residency: Site Director	Brigham and Women's Hospital
2019-	Sub-Internship Director	Brigham and Women's Hospital
2019-2022	Medical Student Course Director	Brigham and Women's Hospital
2019-	Harvard Plastic Surgery Grand Rounds Organizer	Harvard Medical School
2019-2022	Director Abdominal Wall Transplant Program	Brigham and Women's Hospital
2021-	Co-Director of Oncoplastic Surgery	Brigham and Women's Hospital
2023-2025	Co-Director of Clinical Operations	Brigham and Women's Hospital

Regional

National

2017-2018	Plastic Surgery Research Council: Resident Representative	Plastic Surgery Research Council Beverly, MA
2019-	Susan G. Komen Advocate in Science	Susan G. Komen Foundation Boston, MA

International

Committee Service:

Local

2015-2018	Business of Medicine Committee	The Johns Hopkins Hospital Event Organizer
2019-	Executive Committee: Harvard Combined Residency Program	Harvard Medical School Brigham and Women's Representative
2023-	Executive Committee	Brigham and Women's Faulkner Hospital Surgery Representative
2024-	MGB Integration Finance Committee	Mass General Brigham Surgery Representative

Regional

National

2020-	Legislative Committee	American Society of Plastic Surgeons Member
2020-	Annual Meeting Committee	American Society of Plastic Surgeons Member
2020-	Technology Committee	Plastic Surgery Research Council Member
2023-	Medical Device Approval Committee	United States Food and Drug Administration

International

Professional Societies:

2007-2011	Texas Medical Association	Member
2013-	The Plastic Surgery Research Council Member, Technology Committee	Member
2013-	The American Society of Plastic Surgeons Member, Annual Meeting Committee Member, Legislative Action Committee	Member
2013-	American Medical Association	Member
2013-	American Society of Aesthetic Plastic Surgery	Member
2018-	PlastyPAC	Member
2018-	American Society for Reconstructive Microsurgery	Member
2019-	American Council for Academic Plastic Surgery	Member
2019-	Massachusetts Society of Plastic Surgeons	Member

Grant Review Activities:

2021-2022	Plastic Surgery Foundation: Clinical Science Grant Review	Ad hoc
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Editorial Activities:

- **Ad hoc Reviewer**

Aesthetic Surgery Journal

Annals of Plastic Surgery

Annals of Surgery

Breast Surgery Journal

Plastic and Reconstructive Surgery

Plastic and Reconstructive Global Open

Journal of Reconstructive Microsurgery

Journal of Anaplastology

International Journal of Burns and Trauma

Eplasty

Archives of Breast Surgery

Case Reports in Plastic and Hand Surgery

Breast Cancer Research and Treatment

- **Other Editorial Roles**

2016-2018	Resident Ambassador Board	Plastic and Reconstructive Surgery
2017-2018	Resident Editorial Board	Plastic and Reconstructive Surgery
2021-	Editorial Board	Archives in Breast Surgery

Honors and Prizes:

2003-2007	Dean's List	University of Texas at Austin	Scholarly Achievement
2004-2005	Natural Sciences Executive	University of Texas at Austin	Leadership
2004	Parlin Foundation Merit Scholarship	HT Parlin Foundation	Scholarly Achievement
2006	Parlin Foundation Merit Scholarship	HT Parlin Foundation	Scholarly Achievement
2007	Sigma Xi	University of Texas at Austin	Research Achievement
2007	Honors Distinction in Research	University of Texas at Austin	Research Achievement
2011	Outstanding Student Award	McGovern Medical School	Scholarly Achievement
2011	Merek Outstanding Graduate Award	McGovern Medical School	Scholarly Achievement
2011-2014	Excellence Award	The Johns Hopkins Hospital	Patient Care
2014	Best Clinical Paper Award	The Johns Hopkins Hospital	Scholarly Achievement

2015	Best Resident Presentation- Basic Science	American Association of Plastic Surgeons	Research Achievement
2016	Traveling Fellowship	Operation Smile	Patient Care
2023	Paper of the Year	Plastic and Reconstructive Global Open Journal	Research Achievement
2024	Best Clinical Paper	American Association of Plastic Surgery	Research Achievement

Report of Funded and Unfunded Projects

Past

2012-2013	The Learning Portfolio: Online Education for Plastic Surgeons Acelity Educational Grant Principal Investigator; \$30,000 total direct costs The goal of this project was to create a digital open access portal for educational content.
2019-2020	Systematic Review of Breast Reconstruction Agency for Health Research and Quality (AHRQ) Consultant The goal of this project was to perform a systematic review with key opinion leaders, patients, and literature to demonstrate best practices in breast reconstruction.
2021-2024	Cost-Effectiveness of Pre-Pectoral versus Sub-Pectoral Breast Reconstruction National Endowment for Plastic Surgery Foundation Principal Investigator; \$50,000 total direct costs The goal of this project was to implement a prospective clinical trial to determine optimal breast reconstruction practices from the patient's perspective while measuring the financial implications of each decision.

Current

2024-	Improving Revision Rates in One Stage Direct Implant Breast Reconstruction Johnson and Johnson Educational Grant Principal Investigator; \$105,000 total direct costs The goal of this project was to implement a prospective clinical trial to determine optimal implant composition in prepectoral breast reconstruction.
2024-	Prevention of Abdominal Wall Complications in Autologous Breast Reconstruction Tela Bio, Inc. Principal Investigator; \$22,000 total direct costs The goal of this project is to retrospectively determine best practices in abdominal wall reinforcement during autologous breast reconstruction.

Projects Submitted for Funding

2025-	Autonomous, AI Assisted Liposuction Devices for Plastic Surgery National Science Foundation Co-Principal Investigator, \$375,000 total direct costs The goal of this project is to produce a completely autonomous, robotic surgical device to improve the fidelity, safety, and widespread use of liposuction in humans.
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2025- Implications of the FDA Black Box Warning on Breast Implant Trends in the United States
Plastic Surgery Foundation Pilot Grant
Principal Investigator; \$10,000 total direct costs
The goal of this project is to determine the implications of the FDA Black Box warning on breast implant removal, replacement, and conversion to autologous tissue reconstruction after breast cancer.
Submitted 2024

Training Grants and Mentored Trainee Grants

Unfunded Current Projects

2024- Capsular contracture rates in polyurethane breast implants
Co Investigator
I am supervising a post-doctoral fellow in performing a multi-national retrospective cohort study identifying capsular contracture rates of polyurethane breast implants after breast reconstruction

2024- Evaluation of national preferences and trends in breast reconstruction.
Principal Investigator
Evaluation of national data sets to assess shifting trends in breast cancer reconstructive choice as it relates to global financial and regulatory changes.

Report of Local Teaching and Training

Teaching of Students in Courses:

Formal Teaching of Residents, Clinical Fellows and Research Fellows (post-docs):

2020-	Harvard Plastic Surgery Grand Rounds	Harvard Medical School
	Harvard Plastic Surgery Residents	Annual, one-hour course
2021-	Mock Oral Boards	The Johns Hopkins Hospital
	Hopkins Plastic Surgery Residents	Annual, three-hour course
2023	Financial Resources for Surgery Residents	Harvard Medical School
	Harvard Plastic Surgery Residents	Annual, one-hour course
2024	Oncoplastic Surgery	Harvard Medical School
	Harvard Plastic Surgery Residents	Annual, one-hour course

Clinical Supervisory and Training Responsibilities:

2019-	Attending Surgeon, Supervision of Residents and Microsurgery Fellow BWH Plastic Surgery Residents	60 hours per week
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Research Supervisory and Training Responsibilities:

2020-	Supervision of Research Fellows Research Fellows	2 hour lab meeting/week, 1 hour individual supervision weekly
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Formally Mentored Harvard Students (Medical, Dental, Graduate, and Undergraduate):

2019-2022	Soley Olafsson, MSIII, HMS MD/MBA Class of 2021 Provided structural research and clinical mentorship. Advising MBA project in time-driven activity-based costing for surgical care. Matched to NYU plastic surgery.
2021-	Colby Hyland, MSIII, HMS MD Class of 2022 Provided structural research and clinical mentorship for multiple clinical projects surrounding breast reconstruction after mastectomy. Won abstract of the year at AAPS. Matched to Harvard plastic surgery.
2022-2024	Alan Yang, MSIII. HMS MD Class of 2023 Provided structural research and clinical mentorship in multiple projects surrounding payment models in reconstructive surgery. Won paper of the year for PRS-GO journal.
2022-	Goutam Gadiraju, MSIII, HMS MD/MBA candidate Provided formal mentorship in multiple clinical projects in addition to founding a company and several novel US patents for surgical catheters and drains. Currently completing a one-year HBS MBA.
2022-	Matthew Prospero, MSIII, HMS MD candidate Provided formal mentorship in multiple clinical projects.
2022-2024	Bryce Starr, MSIII, HMS MD Provided formal mentorship in multiple clinical projects. Matched to UCLA plastic surgery residency.
2024-	Hanna Shin, MSI, HMS MD Provided formal mentorship in the form of summer research position where the principal project involves evaluation of climate change impacts of elective surgical procedures.

Other Mentored Trainees and Faculty:

2014- Michael Smith, MD/Plastic Surgery Faculty. University of Texas Medical Branch.
Provided mentorship since undergraduate student through medical school and now into residency. Published three manuscripts, 2 national presentations. Provided guidance in statistical methodology, study design, and career development.

2023- Rene Gao, MD Candidate 2026. University of Massachusetts.
Provided mentorship during a longitudinal research experience resulting in multiple abstracts and publications regarding breast implant safety.

2023- Alina Shen, MD Candidate 2028. Yale University School of Medicine.
Provided mentorship during a longitudinal research experience resulting in multiple abstracts and publications regarding reconstructive safety in women with inflammatory breast cancer.

2024- Anne Marie Raymakers, MD/Plastic surgery faculty. University of the Netherlands
Provided mentorship during dedicated research fellowship implementing a clinical trial and statistical analysis on a multi-site trial evaluating prepectoral, radiated implant reconstruction.

Formal Teaching of Peers (e.g., CME and other continuing education courses):

No presentations below were sponsored by 3rd parties/outside entities

Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

2021	Vascularized Lymph Node Transfer for the Treatment of Breast Cancer Related Lymphedema.	Lecture
	Dana Farber Breast Cancer Research Conference	Boston, MA
2021	Simultaneous Breast Reconstruction and Vascularized Lymph Node Transfer in Patients with Inflammatory Breast Cancer	Lecture
	Dana Farber Inflammatory Breast Cancer Summit	Boston, MA
2021	Oncoplastic Breast Surgery: Volume Displacement versus Volume Replacement	Lecture
	Division of Breast Surgery Grand Rounds	Boston, MA
2022	Financial Toxicity in Breast Cancer Patients	Lecture
	Dana Farber Breast Cancer Grand Rounds	Boston, MA
2023	Value Based Breast Reconstruction	Lecture
	Dana Farber Multidisciplinary Breast Cancer Conference.	Boston, MA.
2024	Surgical Options for Lymphedema	Lecture
	Dana Farber Inflammatory Breast Cancer Summit	Boston, MA
2024	Breast Cancer Reconstruction: State of the Art	Lecture
	Dana Farber Breast Cancer Summit	Boston, MA
2025	Young and Strong Patient Advocacy Summit	Lecture

	Dana Farber Cancer Center	Boston, MA
2025	Beyond The Scalpel-Breast Reconstruction Disparities in Massachusetts	Worcester, MA

Local Invited Presentations:

No presentations below were sponsored by 3rd parties/outside entities

Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

2019 Microsurgical Reconstruction as a Career
 Harvard Plastic Surgery, Harvard Medical School

2020 Plastic Surgery and Insurance Negotiation
 Harvard Plastic Surgery, Brigham and Women's Hospital

2020 Ballistic Facial Injuries
 Harvard Plastic Surgery, Brigham and Women's Hospital

2021 Establishing Value in Surgery
 Harvard Plastic Surgery, Brigham and Women's Hospital

2023 Shark Tank: Serosafe Surgical Drain
 Harvard Business School.

Report of Regional, National and International Invited Teaching and Presentations

No presentations below were sponsored by 3rd parties/outside entities

Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

Regional

2014 Surgical Intervention of Pediatric Orbital Floor Fracture Improves Enophthalmos but Does Not Affect Visual Outcomes: An Analysis of 72 Children with Isolated Orbital Floor Fractures/Plenary Talk
 Northeastern Society of Plastic Surgery Annual Meeting, Rhode Island

2021 Defining the Anatomy of the Tendinous Intersections of the Rectus Abdominis Muscle and Their Clinical Implications in Functional Muscle Neurotization.
 The Johns Hopkins Hospital Research Symposium. Grand Rounds. Baltimore, MD.

2021 Tufts Visiting Professor: Vascularized Lymph Node Transfer for the Treatment of Breast Cancer Related Lymphedema
 Department of Oncology Grand Rounds. Tufts Medical Center. Boston, MA.

2022 State University of New York Albany Campus Visiting Professor: Breast Cancer Reconstruction after Inflammatory Breast Cancer.
 Department of Surgery Grand Rounds. Albany, NY

National

2014 The Safety and Efficacy of Cryolipolysis (Selected Oral Abstract)
American Society for Aesthetic Plastic Surgery. San Francisco, CA.

2014 Reconstruction of Large Abdominal Wall Defects Using Neurotized Vascular Composite Allografts (Selected Oral Abstract)
Plastic Surgery Research Council. Seattle, WA.

2016 Soft Tissue Reconstruction of Large Spinal Defects: A 12-year Institutional Experience/Plenary talk (Selected Oral Abstract)
Plastic Surgery Research Council. New York.

2017 Symptomatic deep venous thrombosis following lower extremity flap harvest: lessons learned from a single institution experience (Plenary Talk)
American Society for Reconstructive Microsurgery. Kona, HI

2017 Symptomatic deep venous thrombosis following lower extremity flap harvest (Plenary Talk)
American Association of Plastic Surgery. Austin, TX.

2017 Breast Reconstruction with AeroForm Tissue Expanders (Panel)
American Society for Plastic Surgery. Orlando, FL.

2017 The Role of Mentorship in Plastic Surgery (Plenary Talk)
Plastic Surgery Research Council. Durham, NH.

2021 Surgical Options for Breast Reconstruction and Lymph Node Transfer (Panel)
Plastic Surgery Nursing Summit. Atlanta, GA.

2021 Free Flap Monitoring for Autologous Breast Reconstruction (Panel)
Plastic Surgery Nursing Summit. Atlanta, GA.

2022 Oncoplastic Surgery: Valuable Tool for Partial Breast Reconstruction (Panel)
Plastic Surgery Nursing Summit. Boston, MA.

2022 Oncologic Chest Wall Reconstruction (Panel)
American Society of Plastic Surgery Annual Meeting. Boston, MA.

2022 Oncoplastic Tissue Rearrangement: Timing and Preparation (Moderator)
American College of Surgeons Annual Meeting. San Diego, CA.

2023 Oncologic Chest Wall Reconstruction: Anatomical Concepts (Panel)
American Society of Plastic Surgery Annual Meeting. Austin, TX.

2024 What I do Differently Now in Breast Reconstruction (Moderator)

American Society of Plastic Surgery Annual Meeting. San Diego, CA

2024 Challenges in Oncoplastic Breast Reconstruction (Moderator)
New England Society for Plastic Surgery Annual Meeting. Bretton Woods, NH.

2024 University of California Irvine Visiting Professor Grand Rounds: Value Based Breast Reconstruction. Department of Surgery, Division of Plastic Surgery. Irvine, CA.

2025 University of Pennsylvania Visting Professor Grand Rounds: Oncoplastic Breast Reconstruction, Improving Patient Experience. Department of Surgery, Division of Plastic Surgery. Philadelphia, PA.

2025 Truth About Radiotherapy and Breast Reconstruction. (Plenary Talk) San Antonio Breast Cancer Symposium. San Antonio, TX.

International

2017 Functional Abdominal Wall Reconstruction (Plenary Talk)
UZ Gent Department of Surgery Grand Rounds. UZ Gent, Belgium

2020 Evergrande Healthcare Summit. Reconstruction After Breast Cancer (Plenary Talk)
Boao, China.

2021 Universidad de Buenos Aires Surgery Grand Rounds: Breast Reconstruction with Lymphedema Treatment: A New Practice Paradigm (Plenary Talk)
Buenos Aires, Argentina

2022 London Abdominal Wall Meeting: Abdominal Wall Reconstruction: Current State of Abdominal Wall Vascularized Allograft Transplantation (Plenary Talk)
London, UK

2022 Master of Disaster: Value Based Breast Reconstruction in the United States. (Plenary Talk)
University of Duisburg-Essen. Essen, Germany

2023 First Hospital of Sun Yat-Sen University Grand Rounds: Oncoplastic Surgery after Lumpectomy: The Cutting Edge. (Plenary Talk)
Guangzhou, China

2023 First Hospital of Sun Yat-Sen University Breast Surgery Summit: Innovations in Breast Reconstruction after Mastectomy. (Plenary Talk)
Guangzhou, China

2025 International Consortium for Health Outcomes Measurement. Value Based Breast Reconstruction-How to We Evaluate New and Emerging Technologies?
Dublin, Ireland

2025 Lebanese American University Medical Center Breast Cancer Summit: Life After Breast Cancer.
Beirut, Lebanon

Report of Clinical Activities and Innovations

Past and Current Licensure and Board Certification:

2011	Advanced Cardiac Life Support
2012	Advanced Trauma Life Support
2013	Maryland Medical License
2018	Texas Medical License
2018	DEA Controlled Substances License
2019	Massachusetts Medical License
2021	American Board of Plastic Surgery

Practice Activities:

2018-2019	Cancer Reconstruction	MD Anderson Cancer Center Houston, TX.	7 days per week
2019-	Cancer Reconstruction	Brigham and Women's Hospital Boston, MA	60 hours per week

Clinical Innovations:

Optimization of Abdominal Wall Transplantation at Johns Hopkins Hospital (2016-):	Neurotization of vascularized allografts provided improved functional and sensory recovery in small animal models. This work was translated in the clinical realm and included in human protocols to improve outcomes in transplant candidates resulting in the first urogenital and abdominal wall transplant performed worldwide. (see references 11, 15, 17, 23 below). Nerve coaptation at the time of transplant has now become standard of care in this procedure.
Streamlining Post-Operative Breast Reconstruction Recovery at Brigham and Women's Hospital (2019-):	At BWH there are many unique protocols for recovery of microvascular breast reconstruction patients. In an effort to improve efficiency, streamline recovery, and promote standardization, I spearheaded an effort to implement one combined recovery pathways which was agreed upon by 8 surgeons, nurses, and ancillary staff.
Establishment of a Multidisciplinary Physiologic Solutions for Lymphedema Program at Brigham and Women's Hospital (2019-):	Vascularized lymph node transfer is a novel approach to breast cancer related upper extremity lymphedema. Through collaboration with occupational therapist, radiologists, breast surgeons, and other plastic surgeons, we have created clinical pathway for patients to be seen and treated with these novel techniques resulting in the first lymphovenous bypass and first vascularized lymph node transplant performed in the MGB hospital system.

Report of Teaching and Education Innovations

Johns Hopkins Medical Student Education. 2017	Developed a strategy for improving transparency and approachability for medical students via streamlined communication with residents/faculty on a website-based application. This was done by creating a new website, standardizing educational resources, and generating 360 evaluations of residents/faculty.
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Report of Technological and Other Scientific Innovations

Serosafe novel surgical drains and catheters (2022-)	My research group developed a novel array of surgical drains and catheters whose aim is to minimize pain, advance safety, and improve the patient experience. These devices are currently being tested in the first in-human clinical trials.
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US Patent Application, US2023/031347. W02024054375A1

Calisto Concierge LLC (2021-)	Co-founded a mobile medical aesthetics company providing at-home healthcare to minimize wait-time and lessen exposure to respiratory viruses during COVID-19 pandemic.
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Report of Education of Patients and Service to the Community

No presentations below were sponsored by 3rd parties/outside entities
 Those presentations below sponsored by outside entities are so noted and the sponsor(s) is (are) identified.

Activities

Educational Material for Patients and the Lay Community:

Books, articles, and presentations in other media

Educational material or curricula developed for non-professional audiences

Patient educational material

2019	What to Expect After Breast Reconstruction
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2019 What to Expect After
DIEP Flap
Reconstruction

Recognition:

Report of Scholarship

Peer-Reviewed Scholarship in print or other media:

Research Investigations

1. Dupre ML, **Broyles JM**, Mihic SJ. Effects of a Gating Mutation in the TM2-TM3 Linker Region of the Glycine Receptor Alpha-1 Subunit on Gating and Allosteric Modulation. *Brain Res.* 2007 Jun 4; 1152:1-9.
2. George EM, Cabreriza SE, Quinn TA, Rusanov A, Gerrah R, **Broyles JM**, Weinberg AD, Spotnitz HM. Validation of Automated Monitoring of Cardiac Output for Biventricular Pacing Optimization. *J Am Soc Artif Org.* 2010 Mar 22; 56(3):265-9.
3. Sacks JM, Nguyen AT, **Broyles JM**, Yu P, Valerio IL, Baumann DP. Near-infrared laser-assisted indocyanine green imaging for optimizing the design of the anterolateral thigh flap. *Eplasty.* 2012;12:e30.
4. Berli J, **Broyles JM**, Lough D, Shridharani S, Brandacher G, Sacks JM. Systematic Literature Review and Current Concepts of Vascularized Composite Allograft Transplantation of the Abdominal Wall. *Clin Transplant.* 2013 27(6), 781-789.
5. **Broyles JM**, Alrakan M, Ensor CR, Khalifian S, Kotton CN, Avery RK, Brandacher G, Lee WP, Gordon CR. Characterization, Prophylaxis, and Treatment of Infectious Complications in Craniomaxillofacial and Upper Extremity Allotransplantation: A multicenter perspective. *Plast Reconstr Surg.* 2014 133(4),543e-551e.
6. **Broyles JM**, Abt NB, Shridharani SM, Bojovic BB, Rodriguez ED, Dorafshar AH. The Fusion of Craniofacial and Microsurgery: A Functional and Aesthetic Approach. *Plast Reconstr Surg.* 2014 134(4),760-769.
7. Shridharani SM, Manson PN, Magarakis M, **Broyles JM**, Whitaker IS, Rodriguez ED. The Safety and Efficacy of Epinephrine in Hand Surgery-A Systematic Review of the Literature and International Surgery. *Eur J Plast Surg.* 2014 37:183.
8. R Ohkuma, R Mohan, **JM Broyles**, M Yamazaki, E Schneider, GD Rosson. Abdominal Based Free Flap Planning in Breast Reconstruction with CT Angiography-Systematic Review and Meta-Analysis. *Plast Reconstr Surg.* 2014 Mar;133(3):483-94.
9. Singh DP, Mavrophilipos VD, Zapora JA, Berli J, **Broyles JM**, Chopra K, Sabino J, Matthews J, Buckingham EB, Maddox JS, Bluebond-Langer R, Silverman RP. Novel technique for innervated abdominal wall vascularized composite allotransplantation: a separation of components approach. *Eplasty.* 2014 Sep 19;14-34.
10. Pang J, **Broyles JM**, Berli J, Buretta K, Shridharani SM, Rochlin DH, Efron JE, Sacks JM. Abdominal versus Thigh Based Reconstruction of Perineal Defects in Cancer Patients. *Dis Colon Rectum.* 2014 Jun;57(6):725-32.
11. **Broyles JM**, Berli J, Tuffaha SH, Sarhane KA, Cooney DS, Eckhauser FE, Lee WPA, Brandacher G, Singh DP, Sacks JM. Functional Abdominal Wall Reconstruction Using an Innervated Abdominal Wall Vascularized Composite Tissue Allograft: A Cadaveric Study and Review of the Literature. *J Reconstr Microsurg.* 2015 Jan;31(1):39-44.

12. Azoury SC, Grimm JC, Tuffaha SH, **Broyles JM**, Fischer AC, Yang SC, Tufaro AP. Chest Wall Reconstruction: Evolution Over a Decade and Experience With a Novel Technique for Complex Defects. *Ann Plast Surg.* 2015 Feb;76(2):231-7.
13. Derrick CD, Shridharani SM, **Broyles JM**. The Safety and Efficacy of Cryolipolysis: A Systematic Review of Available Literature. *Aesthetic Surg J.* 2015 Sep;35(7):830-6.
14. **Broyles JM**, Jones D, Bellamy J, Elgendi T, Sebai M, Susarla SM, Vaca EE, Tuffaha SH, Manson PN, Dorafshar AH. Pediatric Orbital Floor Fractures: Outcome analysis of 72 Children with Orbital Floor Fractures. *Plast Reconstr Surg.* 2015 Oct;136(4):822-8.
15. **Broyles JM**, Sarhane KA, Tuffaha SH, Cooney DS, Lee WP, Brandacher G, Sacks JM. Reconstruction of Large Abdominal Wall Defects Using Neurotized Vascular Composite Allografts. *Plast Reconstr Surg.* 2015 Oct;136(4):728-737.
16. Zelken JA, Hong JP, **Broyles JM**, Hsiao YC. Preventing Elevated Radix Deformity in Asian Rhinoplasty with a Chimeric Dorsal-Glabellar Construct. *Aesthet Surg J.* 2016 Mar 36(3):287-96.
17. Tuffaha SH, Budihardjo JD, Sarhane KA, Kusheim M, Song D, **Broyles JM**, Salvatori R, Means KR Jr, Higgins JP, Shores J, Cooney D, Hoke A, Lee WP, Brandacher G. Growth Hormone Therapy Accelerates Axonal Regeneration, Promotes Motor Reinnervation, and Reduces Muscle Atrophy Following Peripheral Nerve Injury. *Plast Reconstr Surg.* 2016 Jun;137(6):1771-80.
18. **Broyles JM**, Tuffaha SH, Williams EH, Glickman L, George TA, Dellon AL. Pain after breast surgery: Etiology, diagnosis, and definitive management. *Microsurgery.* 2016 Oct;36(7):535-538.
19. Coon D, Calotta NA, **Broyles JM**, Sacks JM. Use of Biological Tissue Matrix in Postneurosurgical Posterior Trunk Reconstruction is Associated with Higher Wound Complication Rates. *Plast Reconstr Surg.* 2016 Jul;138(1):104e-10e.
20. **Broyles JM**, Smith M, Coon D, Bonawitz SC. Assessment of Nursing Deficiencies in the Postoperative Care of Microsurgical Patients. *J Reconstr Microsurg.* 2016 Oct;32(8):615-24.
21. Tuffaha SH, Sarhane KA, Mundinger GS, **Broyles JM**, Reddy SK, Azoury SC, Seal S, Cooney DS, Bonawitz SC. Pyoderma Gangrenosum After Breast Surgery: Diagnostic Pearls and Treatment Recommendations Based on a Systematic Literature Review. *Ann Plast Surg.* 2016 Aug;77(2):e39-44.
22. Devulapalli C, **Broyles JM**, Bello R, Elgendi T, Yalanis G, Redett R, Rosson GD, Sacks JM. Soft Tissue Reconstruction of Large Spine Defects: A 12-year Institutional Experience. *Plast Reconstr Surg.* 2017 Oct;140(4):806-814.
23. **Broyles JM**, Schuenke M, Patel S, Vail C, Broyles HV, Dellon AL. Defining the Anatomy of the Tendinous Intersections of the Rectus Abdominis Muscle and Their Clinical Implications in Functional Muscle Neurotization. *Ann Plast Surg.* 2018. Jan;80(1): 50-53.
24. **Broyles JM**, Tuffaha SH, Sacks JM. Human Acellular Dermal Matrix Increases Complication Profile in Implant Based Breast Reconstruction When Compared with Submuscular Alone: Updated Meta-Analysis Incorporating New Products. *J Plast Reconstr Aesth Surg.* 2018. Nov;71(11):1547-1556.
25. Tuffaha SH, Quan A, Hashemi S, Parikh P, O'Brien-Coon DM, **Broyles JM**, Dellon AL, Lifchez SL Selective Thumb Carpometacarpal Joint Denervation for Painful Arthritis: Clinical Outcomes and Cadaveric Study. *J Hand Surg Am.* 2019 Jan;44(1):64.e1-64.e8.
26. **Broyles JM**, Khavanin N, Walia GS, Ostrander BT, Bello R, Carl HM, Pederira RA, Sacks JM. Increased incidence of Symptomatic Venous Thromboembolism. Following Pedicled Lower Extremity Flap Harvest for Abdominal and Perineal Reconstruction in Patients

Receiving Mechanical and Chemoprophylaxis: A Case for Heightened Awareness. *Plast Reconstr Surg.* 2019 Apr; 143(4):840-47e.

27. Sarhane JA, Ibrahim Z, Martin R, Krick K, Cashman CR, Tuffaha SH, **Broyles JM**, Prasad N, Yao ZC, Cooney DS, Mi R, Lee WA, Hoke HQ, Brandacher G. Macroporous nanofiber wraps promote axonal regeneration and functional recovery in nerve repair by limiting fibrosis. *Acta Biomater.* 2019 Apr 1; 88:332-45.
28. Sarhane KA, Tuffaha SH, Ibrihim Z, Cashman CR, Krick K, Martin R, **Broyles JM**, Cooney DS, Lee WPA, Mi R, Mao HQ, Hoke A, Brandacher G. Glial Cell Line-Derived Neurotrophic Factor and Chondroitinase Promote Axonal Regeneration in a Chronic Denervation Animal Model. *Neurotherapeutics.* 2019 Oct;16(4):1283-1295.
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Thesis:

Manuscripts Submitted to Preprint Servers:

Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings:

1. Hyland CJ, Gadiraju GK, Parikh N, **Broyles JM.** Public Perceptions of Climate Change and Plastic and Reconstructive Surgery. Plastic Surgery The Meeting, Boston, MA, October 2022. Oral presentation.
2. Hyland C, Gadiraju GK, Parikh N, **Broyles JM.** Public Perceptions of Breast Implants and the 2021 FDA Boxed Warning for Implants. Plastic Surgery the Meeting, Boston, MA, October 2022. Oral presentation
3. Parikh N, Gadiraju GK, Prospero P, Shen Y, Starr BF, Reiche E, Dey T, **Broyles JM.** The Impact of Breast Implant Cohesivity on Revision Procedures in Two-Stage Pre-Pectoral Breast Reconstruction. Plastic Surgery the Meeting, Austin, TX, October 2023. Oral presentation
4. Copeland-Halperin LR, Hyland CJ, Gadiraju GK, Xiang DH, Bellon JR, Lynce F, Dey T, Troll EP, Ryan SJ, Nakhlis F, **Broyles JM.** Preoperative Risk Factors for Lymphedema in Inflammatory Breast Cancer: A Role for Prophylactic Lymphatic Bypass. Plastic Surgery the Meeting, Austin, TX, October 2023. Oral presentation
5. Yang AZ, Hyland CJ, **Broyles JM.** Microsurgical Breast Reconstruction for Out-of-State Patients: Trends and Payments in a State-Wide Claims Database. Plastic Surgery the Meeting, Austin, TX, October 2023. Oral presentation
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8. Hyland CJ, Yang AZ, Carty MJ, Erdmann-Sager J, Pusic AL, **Broyles JM**. The Use of Unlisted Billing Codes for Microsurgical Breast Reconstruction and Implications for Code Consolidation. American Association of Plastic Surgeons. Boston, MA. May 2024. Oral Presentation.
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10. Saylany A, Prajapati P, Malek A, Gadiraju G, Prospero M, Dey T, Pusic A, Kaur M, **Broyles JM**. Prospective Comparison of Elective Revision Procedures after Subpectoral and Prepectoral Two-stage Implant-based Breast Reconstruction. Plastic Surgery the Meeting, San Diego, CA, October 2024. Oral presentation
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18. Gadiraju G, Gao R, Malek A, Zhang Y, Shen Y, Yang A, **Broyles JM**. Sociodemographic Drivers of Reconstructive Care Following Mohs Micrographic Surgery. American Association of Plastic Surgeons, Austin, TX, May 2025. Poster presentation.

Narrative Report

General Guidelines

- Do not exceed two single-spaced pages; length is generally commensurate with rank (e.g. ≤ 1 -page for Instructors and Assistant Professors)
- Can be optionally organized with subheadings for different topics
- Write in the first person (use "I" statements)
- Avoid jargon; instead, write for a broad audience
- Avoid or limit personal details about your family or health

- Update periodically to account for career growth

Purpose of the Narrative

- Tell a cohesive story about the various aspects of your career
- Describe the impact of your work on the field, with an extension to how it benefits healthcare
- Demonstrate evidence of dissemination of your work
- Convey the ‘big picture’ relevance of your work to non-experts
- Give perspective about the importance of field-specific activities
- Explain events or accomplishments that don’t fit anywhere else
- Anticipate obvious questions about major career shifts or work gaps
- Emphasize your recent and future work, including work in progress

Include contributions to:

- Your Area of Excellence, if applicable (e.g., Clinical Expertise and Innovation; Investigation; Teaching and Educational Leadership).
- Teaching and mentorship (if not already described under your Area of Excellence).
- Any Significant Supporting Activities (Administration & Institutional Service; Clinical Expertise; Education of Patients & Service to the Community; Diversity, Equity & Inclusion; Investigation; Special Merit in Education).

I am a plastic and reconstructive surgeon with a deep commitment to developing innovative, patient-centered solutions for individuals affected by cancer. After completing my residency at The Johns Hopkins Hospital and a fellowship in complex reconstructive microsurgery at MD Anderson Cancer Center, I have focused my clinical practice on addressing the most challenging reconstructive needs across the head and neck, breast, chest, abdomen, pelvis, and extremities. My approach integrates technical precision with creative problem-solving to restore both function and form in patients recovering from oncologic treatment.

My academic focus lies at the intersection of clinical excellence and innovation. I dedicate approximately 80% of my time to clinical practice and 20% to outcomes-based and health services research. My work seeks to make reconstructive surgery safer, more predictable, and more cost-effective—ultimately enhancing value for both patients and the healthcare system.

As Co-Director of Oncoplastic Surgery and a member of the Executive Committee at Faulkner Hospital, I have contributed significantly to institutional and national initiatives to standardize and elevate perioperative practices. Nationally, I serve on committees within the American Society of Plastic Surgeons, where I help define best practices in reconstructive care. Furthermore, I serve on the Medical Device Approval Committee for the Food and Drug Administration, where I contribute to the evaluation and approval of novel medical technologies, with a focus on ensuring patient safety, clinical efficacy, and societal value. Finally, I have developed and prototyped novel medical devices aimed at improving patient recovery and satisfaction following breast reconstruction, with the goal of commercialization and broader clinical adoption.

My scholarly contributions include over 83 peer-reviewed publications, 11 book chapters, and numerous invited lectures at national and international conferences. In these investigations, I have secured both foundational and private funding for many of these projects. These efforts have centered on strategies to improve patient experience and outcomes in breast reconstruction, emphasizing both evidence-based practices and value-driven care.

Education and mentorship are foundational to my academic mission. As a member of the Executive Committee for the Harvard Plastic Surgery program, I have helped shape residency training and expand educational opportunities for both residents and faculty. In my roles as Site Director for the Harvard Plastic Surgery Residency Program and Medical Student Coordinator for Harvard Medical School, I have had the privilege of formally mentoring over ten medical students—most of whom have successfully matched into plastic surgery residency programs. I also serve as the content coordinator for our multi-institutional Grand Rounds program, helping to ensure high-quality, interdisciplinary learning across our academic community.

I am deeply gratified by my role as a surgeon, educator, and innovator. My clinical practice is animated by a strong belief in the transformative power of reconstructive surgery, and my academic work reflects a persistent drive to improve care delivery. By continuing to leverage the world-class resources at Harvard Medical School, Brigham and Women's Hospital, and the Harvard T.H. Chan School of Public Health, I am committed to advancing novel, value-based approaches that will benefit both individual patients and the broader healthcare system.