

# Amber R. Leis

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## APPOINTMENTS

**2015 - Present**

**University of California, Irvine**

Department of Plastic Surgery, Orange, CA  
Residency Program Director 11/2019  
Residency Program Assistant Director 2016-2019  
Assistant Clinical Professor  
Interim Hand Fellowship Director 1/2019-8/2019  
Director of Hand Surgery  
Physician Wellness Committee Member  
M-power Committee Member  
Clinical Competency Committee Member  
Program Evaluation Committee Member  
Journal Club Coordinator 2015-2019  
Director of the Brachial Plexus Birth injury Program  
Surgical privileges additionally at Children's Hospital of Orange County  
and Veteran's Affairs Hospital of Long Beach

## EDUCATION

2014 - 2015

**University of Southern California Keck School of Medicine**

Department of Orthopaedic Surgery, Los Angeles, CA Joseph H. Boyes  
Hand Fellowship

2008 - 2014

**Loma Linda University Medical Center, Loma Linda, CA**

Resident, Plastic Surgery Integrated Program

2004 - 2008

**Johns Hopkins University School of Medicine, Baltimore, MD**

Doctor of Medicine

1998 - 2003

**Oregon State University Honors College, Corvallis, OR**

Honors B.S. Microbiology (Summa Cum Laude)

## PROFESSIONAL LICENSURE

**California Medical License**

#A108820

**CA Fluoroscopy Supervisor and Operator**

#RHC00169812

**Board Certified Plastic Surgery**

November 2016

**Hand Surgery Exam (formerly SOTH, formerly CAQ)**

November 2017

PROFESSIONAL  
MEMBERSHIPS  
And  
COMMITTEES

American Association for Hand Surgery – Active Member  
American Society of Plastic Surgeons – Active Member  
American Society for Surgery of the Hand – Active Member,  
Resident Education Committee Member 2017-2019  
American Council of Academic Plastic Surgeons – Active Member  
Orange County Society of Plastic Surgeons  
California Society of Plastic Surgeons  
Fellowship, American College of Surgeons  
American Society of Reconstructive Microsurgeons  
American Society of Peripheral Nerve  
Plexus Nexus Pediatric Brachial Plexus Injury Workgroup  
Pediatric Hand Surgery Workgroup

PUBLICATIONS

- 1) The Hand in Art: Hands of Shimla, Himachal Pradesh, India **Leis AR**, Coffey CS. The Journal of Hand Surgery. 2014 January; 39;1:117.
- 2) Single Specialty Management and Reconstruction of Necrotizing Fasciitis: Analysis of Clinical and Economic Parameters. Mattison G, **Leis AR**, Gupta SC. Annals of Plastic Surgery. 2014 May; 1:S18-21.
- 3) Development and Validation of a Clinical Assessment Tool for Platysmal Banding in Cervicofacial Aesthetics of the Female Neck. Gupta S, Biskup N, Mattison G, **Leis A**. Aesthetic Surgery Journal. 2015 Aug; 35(6).
- 4) Extrarenal Rhabdoid Tumor of the Brachial Plexus in a Five-year-old Female: A Case Report and Review of the Literature. Molina N, **Leis A**. Journal of Pediatric Surgery Case Reports. 2016;(15):5-9.
- 5) Giant Anterior Chest Wall Basal Cell Carcinoma: An Approach to Palliative Reconstruction. Santos PJ, Prendergast C, **Leis A**. Case Reports in Oncological Medicine. 2016; article ID 5067817.
- 6) So You Think You Don't Plunge? An Assessment of Far Cortex Drill Tip Plunging Based on Level of Training. **Leis A**, Sharpe F, Hill JR, Pannell W, Wilson M, Ebrahimzadeh E, Stevanovic M. Surgical Technology International. 2017 Jul 25;30:490-495.
- 7) Readability of Online Materials for Dupuytren's Contracture. Santos PJF, Daar DA, Badeau A, **Leis A**. Journal of Hand Therapy. 2017 Aug 23.
- 8) Management Modalities and Outcomes following Acute Scaphoid Fractures in Children: A Quantitative Review and Meta-Analysis Shaterian A, Santos PJ, Lee C, Evans G, **Leis A**. Hand. 2017 Oct 1.
- 9) Expression of the BRAF L597Q Mutation in Sporadic Neurofibromas of the Upper Extremity. Shaterian A, Bota D, **Leis A**. Experimental and Molecular Pathology. 2017. (103)276-278.

**10)** Predictors of Digit Survival following Replantation: Quantitative Review and Meta-Analysis. Shaterian A, Rajaii R, Kanack M, Evans GRD, **Leis A**. Journal of Hand and Microsurgery. 2018. Aug;10(2):66- 73.

**11)** Predictors of Hand Function Following Digit Replantation: Quantitative Review and Meta Analysis. Shaterian A, Sayadi LR, Tiourin E, Gardner DJ, Evans GRD, **Leis A**. Hand. 2019. April;2.

**12)** The Molecular Pathogenesis of Dupuytren Disease: Review of the Literature and Suggested New Approach to Treatment. Sayadi LR, Alhunayan D, Sarantopoulos N, Kong C, Condamoor S, Sayadi J, Banyard DA, Shaterian A, **Leis A**, Evans GRD, Widgerow AD. Annals of Plastics Surgery. 2019. Nov;83(5):594-600.

Characteristics of Secondary Procedures following Digit and Hand Replantation. Shaterian A, Sayadi LR, Anderson A, Ng W, Evans GRD, **Leis A**. Accepted for publication. Journal of Hand and Microsurgery.

Etiology and Survival of Secondary Revascularization after Hand and Digit Replantations. Shaterian A, Sayadi LR, Anderson A, Ng W, Evans GRD, **Leis A**. Accepted for publication. Journal of Hand and Microsurgery.

Pediatric Microsurgical Limb Salvage: Case Series and Literature Review. Lee CJ, **Leis AR**, Nassif NA, Vyas RM. Journal of Reconstructive Microsurgery. Submitted.

Why Academic Plastic Surgery Should Lead a "Clinically Applied Anatomy" Course for First-year Medical Students. Vyas RM, Sinha S, Entexampour M, **Leis A**, Evans GRD. Submitted.

A case of heterotopic salivary tissue: Pleomorphic adenoma of the nose. Fligor J, **Leis AR**. Pediatric Dermatology. Submitted.

## BOOK CHAPTERS

**1)** Nailbed Injuries. Mattison G, **Leis A**.  
Evans Operative Plastic Surgery 2<sup>nd</sup> Edition.

**2)** Compartment Release of the Upper Extremity.  
Video contribution to Compartment Syndrome and Volkmann Ischemic Contracture In Green's Operative Hand Surgery 7<sup>th</sup> Edition.

**3)** Reverse Sural Artery Perforator Flap for Lower Extremity Reconstruction. Shaterian A. **Leis A**.  
Operative Techniques in Plastic Surgery, Edited by Gordon Lee.

## GRANTS SUBMITTED

American Federation of Surgery of the Hand Basic Science Grant 2018 – not funded

American Association of Plastic Surgery Grant 2018 – not funded

American Society of Surgery of the Hand Grant 2018 – not funded

Biumvirate Grant 2018 – not funded

SCIENTIFIC  
MEETINGS:  
Posters and  
Presentations

- 1) Pulsed Electromagnetic Field Therapy on Post-surgical Pain: a Randomized Placebo Controlled Double Blind Study in Breast Reconstruction Patients. Leis A, Gabriel A, Gupta S. 5/2009 California Society of Plastic Surgeons, Pearls and Peanuts, **Oral Presentation**
- 2) Extensive Acne Keloidalis Nuchae in the Hispanic Population. Leis A, Jean R, Martin M. 5/2009 California Society of Plastic Surgeons, Pearls and Peanuts, **Oral Presentation**
- 3) Pseudotumor Cerebri in Patients with Non-syndromic Single Suture Craniosynostosis. Leis A, Zourous A, Ray A. 3/2010 American Cleft Palate-Craniofacial Association, **Poster Session**
- 4) Hand and Upper Extremity Injury Associated with Rhino Ridership. Leis A, Mattison G. Gupta S. 3/2013 Loma Linda University Annual Postgraduate Convention, **Poster Session**
- 5) Classification Of The Lower Third Of The Face For Use In Cervicomental Aesthetic Surgery Planning. Leis A, Mattison G, Gupta S. 4/2013 American Society of Aesthetic and Plastic Surgery, Resident Session, **Oral Presentation**
- 6) The Safety Risks of Utility Terrain Vehicles for Recreation: An Analysis of Upper Extremity Morbidity From "Rhino" Crashes. Leis A, Mattison G. Gupta S. 10/2013 American Society of Plastic Surgeons, Senior Residents Meeting, **Oral Presentation**
- 7) Management of the CMC Joint in Triphalangeal Thumb: A Case Report of Twins with Bilateral Thumb Duplication. Leis A, Sharpe F. Kalina S. 10/2013 American Society for Surgery of the Hand, **ePoster**
- 8) Trapezial Fractures and Associated Injuries of the Ulnar Carpus. Leis A, Sharpe F. 10/2013 American Society for Surgery of the Hand, Resident Session, **Oral Presentation**
- 9) Readability and Content of Online Material for Dupuytren's Contracture. Santos PJF, Daar DA, Badeau A, **Leis A.** 9/2016 American Society of Plastic Surgeons, ePoster
- 10) Drilling Time and Far Cortex Penetration: A Cadaveric Study. **Leis A,** Sharpe F, Hill JR, Pannell W, Wilson M, Ebramzadeh E, Stevanovic M. 9/2016 Western Orthopaedic Association, Poster Session
- 11) Management Modalities and Outcomes following Acute Scaphoid Fractures in Children. Shaterian A, Santos PJ, Lee C, Evans G, **Leis A.** 11/2016 Childrens Hospital of Orange County Research Day, Poster Session
- 12) Readability and Content of Online Materials for Dupuytren's Contracture. Santos PJF, Daar DA, Badeau A, **Leis A.** 9/2016 American Society of Plastic Surgery, ePoster

**13)** Trapezial Fractures and Associated Fractures of the Ulnar Carpus: A Ring-bone Model of Injury. Leis A, Sharpe F. 1/2017 American Association for Hand Surgery, **ePoster**

**14)** Predictors of Digit Survival following Replantation: Quantitative Review and Analysis. Shaterian A, Rajaii R, Kanack M, Evans GRD, **Leis A.** 1/2017 Southern CA Chapter American College of Surgeons.

**15)** Management Modalities and Outcomes following Acute Scaphoid Fractures in Children. Shaterian A, Santos PJ, Lee C, Evans G, **Leis A.** 1/2017 Southern CA Chapter American College of Surgeons.

**16)** Clinical Paper Session: Miscellaneous. 9/2018 American Society for Surgery of the Hand. **Moderator.**

**17)** Predictors of Digit Survival following Replantation: Quantitative Review and Analysis. Shaterian A, Rajaii R, Kanack M, Evans GRD, **Leis A.** 1/2018 American Association for Hand Surgery, **ePoster**

**18)** Management Modalities and Outcomes following Acute Scaphoid Fractures in Children. Shaterian A, Santos PJ, Lee C, Evans G, **Leis A.** 5/2019 California Society of Plastic Surgeons

**19)** Predictors of Hand Function Following Digit Replantation: Quantitative Review and Meta Analysis. Shaterian A, Sayadi LR, Tiourin E, Gardner DJ, Evans GRD, **Leis A.** 6/2019 World Society for Reconstructive Microsurgery, **Bologna Italy. Oral presentation.**

**20)** Predictors of Patient Satisfaction in Hand and Upper Extremity Clinics. Shaterian A, Santos PJ, Lee C, Evans G, **Leis A.** 9/2019 American Society of Plastic Surgeons, San Diego California.

An In vitro Investigation into a Novel Treatment Modality for Dupuytren's Contracture. Sayadi LR, Alhunayan D, Sarantopoulos N, Kong C, Condamoor S, Sayadi J, Banyard DA, Shaterian A, **Leis A,** Evans GRD, Widgerow AD. 1/2020 American Association of Hand Surgery, Fort Lauderdale Florida. **ePoster.**

Young Microsurgeons Forum: The Good, the Bad, and the Ugly: Lessons Learned from the Trenches. 1/2020 American Society of Reconstructive Microsurgery Fort Lauderdale Florida. **Panelist.**

## COURSES TAUGHT

**Duke Flap Course** 8/2018 – Faculty: Prestigious international surgical skills course. I was invited to give the lecture regarding flaps for hand reconstruction. I also taught the lab sections for all flaps.

**ACAPS Plastic Surgery Boot Camp** 8/2018 – San Diego Faculty: Regional preparatory course for incoming plastic surgery interns. I was asked to

teach sections related to hand anatomy and examination, and to assist in training sessions for suturing and splinting.

**UCI School of Medicine** – Anatomy course 11/2019-12/2018:

This is an innovative program that places academic surgeons in the role of lab instructor for the first-year medical student anatomy course. I instructed the lab sections for anatomy of the anterior triangle of the neck, antecubital region, forearm and hand.

**ACAPS Plastic Surgery Boot Camp** 8/2019 – San Diego Faculty: I was asked to return for a second year to teach hand anatomy and examination and assist with the hands-on sections for suturing and splinting.

**ASPS Instructional course** – Nailbed Injury and Repair 9/2019: I was invited to teach a one-hour instructional course covering nail bed injury and repair.

**ASPS Instructional course** – Medical student power hour 9/2019: I was invited to serve as a panelist during a session covering the elements of an application to a plastic surgery residency.

**UCI School of Medicine** – Anatomy course assistant 11/2019-12/2019: I was asked to return for a second year to teach the sections covering cubital fossa, anterior forearm and palmar hand

## LECTURES

**1)** Management of Adult Brachial Plexus Injury. 9/2015 UCI Department of Plastic Surgery, Orange, California. CORE Conference.

**2)** Management of Distal Radius Fractures. 9/2015 UCI Department of Plastic Surgery, Orange, California. CORE Conference.

**3)** PIPJ Fractures and Dislocations. 9/2015 UCI Department of Plastic Surgery, Orange, California. CORE Conference.

**4)** Finger Replantation. 10/2015 UCI Department of Plastic Surgery, Orange, California. CORE Conference.

**5)** Hand Masses. 10/2015 UCI Department of Plastic Surgery, Orange, California. CORE Conference.

**6)** Lower Extremity Anatomy. 10/2015 UCI Department of Plastic Surgery, Orange, California. CORE Conference.

**7)** Hand rejuvenation. 1/2016 UCI Department of Plastic Surgery, Orange, California. Community Outreach.

**8)** Common Plastic Surgery Problems. 2/2016 UCI Department of Primary Care. Tustin, California. Lunch Education.

- 9)** Coding. 3/2016 UCI Department of Plastic Surgery, Orange, California. CORE Conference.
- 10)** Tendon Transfers. 4/2016 UCI Department of Plastic Surgery, Orange, California. CORE Conference.
- 11)** Management of Pediatric Brachial Plexus Injury. 5/2016 Children's Hospital of Orange County, Orange, California. Physical Therapy Grand Rounds.
- 12)** Upper Extremity Vascular Anatomy. 5/2016 UCI Department of Plastic Surgery, Orange, California. CORE Conference.
- 13)** Common Hand Problems. 6/2016 Tustin California Senior Center. Lunch and Learn.
- 14)** Management of Pediatric Brachial Plexus Injury. 10/2016 Medical Therapy Unit of Orange County, Orange, California. Physical Therapists Grand Rounds.
- 15)** Oral Boards Preparation, Clinical Instructor and Mock Exam Coordinator. 5/2017 UCI Department of Plastic Surgery, Orange, California. CORE Conference.
- 16)** Using Autologous Tissue for Breast Reconstruction. 10/2017 UCI Department of Plastic Surgery Breast Cancer Awareness Annual Event. Irvine, California.
- 17)** Microsurgery and Nerve Repair Techniques Clinical Instructor and Lecturer. 12/2017 Axogen Resident Course Loma Linda, California.
- 18)** Management of Pediatric Brachial Plexus Injury . 1/2018 UCI Department of Obstetrics and Gynecology, Orange, California. Grand Rounds.
- 19)** How to Look and Feel Your Best. 9/2018 UCI Department of Urology Men's Health Night, Newport Beach, California.
- 20)** Using Autologous Tissue for Breast Reconstruction, and Restoring Sensation After Breast Reconstruction. 10/2018 UCI Department of Plastic Surgery Breast Cancer Awareness Annual Event. Irvine, California.
- 21)** Decoding Skin Health from the Inside Out: Trends, Treatments and Therapies for Deep Skin Vitality. 11/2018 UCI Women's Executive Round Table. Newport Beach, California.
- 22)** High Yield In-Service Review. 3/2019 UCI Department of Plastic Surgery, Orange, California. CORE Conference.
- 23)** Congenital Hand. 3/2019 UCI Department of Plastic Surgery,

Orange, California. CORE Conference.

**24)** Pediatric Brachial Plexus Injury. 4/2019 UCI Department of Plastic Surgery, Orange, California. CORE Conference.

**25)** Oral Boards Preparation, Clinical Instructor and Mock Exam Coordinator. 5/2019 UCI Department of Plastic Surgery, Orange, California. CORE Conference.

**26)** Residency Survival Tips. 7/2019 UCI Department of Plastic Surgery, Orange, California. CORE Conference.

**27)** Tendon Transfers. 7/2019 UCI Department of Orthopaedic and Hand Surgery, Orange, California. Fellows Conference.

**28)** Intro to Distal Radius and Hand Imaging. 7/2019 UCI Department of Orthopaedic and Hand Surgery, Orange, California. Fellows Conference.

**29)** Pediatric Brachial Plexus Injury. 7/2019 UCI Department of Orthopaedic and Hand Surgery, Orange, California. Fellows Conference.

**30)** Emcee. 10/2019 UCI Departments of Radiology, Breast Oncology, and Plastic Surgery Breast Cancer Awareness Annual Event. Irvine, California.

**31)** Cubital Tunnel Release, AIN Transfer. Why Nerve Repairs Fail, Working with your Hand Therapist, and When To Consider Nerve Transfers. 11/2019 Best Practices in Nerve Repair and Reconstruction, Axogen Physicians Course, San Francisco.

## AWARDS & HONORS

**2013** Best Resident Poster, GME Conference

**2013** ASSH/AFSH Annual Meeting Scholarship

**2008** Nathans Distinguished Service for Mentorship and Teaching

**2005-2006** E. Cowles Andrus Scholarship

**2005-2006** Stephan J. Ryan M.D. Scholarship

**2004-2006** Virgil A. Place M.D. Scholarship

**2005-2006** Annual Giving Scholarship

**2003** University Honors College Service Award

**2003** Gilman International Scholarship for International Studies

**2001, 2002** Howard Hughes Medical Institute grant recipient

**2001-2003** E. Ford Memorial Scholarship - Microbiology

**2000-2001** Joseph E Simmons Memorial Scholarship - Microbiology

**2001-2003** Mark H. Middlekauf Scholarship - Microbiology



VOLUNTEER  
ACTIVITES

**1999-2000** Helen Hays Memorial Microbiology Scholarship

**1998-2001** Presidential Scholarship, Oregon State University

**9/2015 – 2018, University of California, Irvine**

Mentor to undergraduate students through the International Medicine Education and Development program

**9/2015 – Present, University of California, Irvine**

Faculty member for summer surgical skills sessions for medical students for suture workshops, anatomy workshops, career workshops.

**2/2017 American Society of Plastic Surgeons**

Local host for the annual Women in Plastic Surgery retreat

**5/2017 – Present, University of California, Women in Surgery Group**

Mentor and participant

**6/2017 Children’s Hospital of Orange County**

Team STEPPS training

**6/2017 University of California, Irvine Anti-Cancer Challenge**

Team captain for Plastic Surgery 5K Challenge

**11/2017 University of California, Irvine Plastic Surgery Residency**

Nerve decompression, hand anatomy, and hand and wrist plating cadaver workshop for UCI residents and fellows

**5/2018 University of California, Irvine Plastic Surgery Residency**

Nerve decompression, hand anatomy, and hand and wrist plating cadaver workshop for UCI residents and fellows

**11/2018 University of California, Irvine Plastic Surgery Residency and Hand Surgery Fellowship**

Microsurgery course instructor for UCI residents and fellows

**8/2019 Arthrex, Cypress CA**

Hand anatomy and fixation workshop for UCI residents and fellows

**10/2019 – Present, Newport Harbor High School, Newport CA**

Mentor

**10/2019 Crean Lutheran High School, Irvine CA**

Career day speaker

MEDICAL  
MISSION TRIPS

**4/2013** Shimla, Himachal Pradesh, India

[www.operationgoodsamaritan.org](http://www.operationgoodsamaritan.org)