

## ACADEMIC TRAINING AND APPOINTMENTS

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### Academic Degrees:

B.S., Neuroscience and Human Biology, Michigan State University – East Lansing, MI	2010-2014
M.D., University of Washington School of Medicine – Seattle, WA	2015-2019

### Professional Appointments:

Neuromuscular Lab Postdoctoral Research Fellow, University of Michigan – Ann Arbor, MI	2022 – 2024
Plastic and Reconstructive Surgery House Officer, University of Michigan – Ann Arbor, MI	2019 – Present

### Licensing and Board Certification:

Medical Doctor – Educational Limited License, State of Michigan	2019 – 2025
Medical Doctor License, State of Michigan	2025 – Present

## GRANTS

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### Present and Active

- 2024-2026: Principal Investigator, Plastic Surgery Foundation National Endowment for Plastic Surgery, “A biomimetic approach to sensory function restoration using a biologic sensory nerve interface” \$50,000
- 2024-2026: Principal Investigator, American Foundation for Surgery of the Hand Clinical Research Grant 4727, “A novel biologic nerve interface for restoring sensation in transradial amputees” \$66,250
- 2025-2029: Co-Investigator, Department of Defense, Congressionally Directed Medical Research Program, Clinical Trial Award Grant14253829, “Exoskeleton Control with the Muscle Cuff Regenerative Peripheral Nerve Interface (MC-RPNI) for Restoring Lower Lim Function Following Traumatic Musculoskeletal Injury” \$2,499,688

### Pending Grants

- Co-Investigator, National Institutes of Health R21, “Restoring sensation in people with transradial amputations using the Dermal Sensory Regenerative Peripheral Nerve Interface” \$429,000
- Co-Investigator, National Institutes of Health R01, “Bidirectional sensorimotor prosthetic control with the Composite Regenerative Peripheral Nerve Interface (C-RPNI)” \$3,529,586

### Completed Grants

- 2021-2022: Principal Investigator, Plastic Surgery Foundation/American Society of Peripheral Nerve Pilot Grant 497694, “Developing the DSI for re-establishing sensory feedback in peripheral afferents” \$10,000
- 2022-2023: Principal Investigator, Plastic Surgery Foundation Fellowship Grant, “Composite dermal and muscle grafts for closed-loop neuroprosthetic control” \$50,000
- 2022-2024: Principal Investigator, American Foundation for Surgery of the Hand Basic Science Grant 3941, “Developing the C-RPNI as a multimodal sensory and motor neuroprosthetic interface” \$26,250

## AWARDS and HONORS

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• The STARR Foundation Scholarship: Undergraduate full ride merit scholarship	2010-2014
• Dean’s Honors List	2010-2014
• Endowed Scholarships in Chemical Engineering	2011-2012
• National Scholar of alpha Kappa Delta Phi National Scholar Program	2012
• College of Natural Science Research Support Program Scholarship	2012
• Michigan State Student Life Leader of the Year Award	2014
• Michigan State APA Leadership Endowment Scholarship recipient	2014

- Neuroscience Program Research Excellence Award 2014
- University of Washington Medical Student Research Training Program awardee 2016
- University of Washington Dunlap Research Scholarship 2016-2017
- University of Washington Odland Scholar (\$15K/year academic scholarship) 2017-2019
- 2022 Leonard Goldner Pioneer Basic Science Research Award 2022  
American Society for Surgery of the Hand  
*"Developing the C-RPNI as a Multimodal Sensory and Motor Neuroprosthetic Interface"*
- Elizabeth Hume O'Donnell Award, Outstanding Thesis in Neuroscience, Mentor 2023  
Mentee: Sara Huang
- Michigan Institute for Clinical & Health Research T32 Translational Science Training grant, Mentor 2023  
Mentee: Julien Levy
- American Society for Surgery of the Hand Annual Meeting Scholarship 2023
- American Society of Peripheral Nerve 2024 Best Basic Science Research Paper Resident Award 2024  
*Adidharma W, Jillala RR, Vaskov AK, Kodali R, Huang S, Wu KL, Rivera-Santana MV, Cederna PS, Kemp SWP. The Composite Regenerative Peripheral Nerve Interface (C-RPNI) Facilitates Bidirectional Sensorimotor Signaling in a Rodent Model. American Society for Peripheral Nerve Annual Meeting, Nassau, Bahamas. Jan 12-14, 2024.*
- Plastic Surgery Research Council Top Scoring Abstract 2024
- Plastic Surgery Research Council Snyder Award for best resident presentation 2024  
*Adidharma W, Kodali R, Jillala RR, Huang SL, Santana-Rivera MV, Kozma KD, Cederna PS, Kemp SWP. The Composite Regenerative Peripheral Nerve Interface (C-RPNI) can facilitate multimodal sensory afferent signaling after mixed nerve transection. Plastic Surgery Research Council, Boston, MA. May 16-19, 2024.*
- Plastic Surgery Research Council Crikelair Award for best medical student presentation, Mentor 2024  
Mentee: Sara Huang  
*Huang SL, Adidharma W, Kodali R, Maurer R, Kozma KD, Wu KL, Santana-Rivera MV, Cederna PS, Kemp SWP. Attenuation of neuroma pain with the Composite Regenerative Peripheral Nerve Interface (C-RPNI). Plastic Surgery Research Council, Boston, MA. May 16-19, 2024.*
- Reed O. Dingman Research symposium best presentation, University of Michigan 2024  
*Adidharma W, Kodali R, Jillala RR, Huang SL, Santana-Rivera MV, Kozma KD, Cederna PS, Kemp SWP. The C-RPNI facilitates bidirectional sensorimotor signaling. Reed O. Dingman Research symposium, Ann Arbor, MI. June 6, 2024*
- American Society for Surgery of the Hand Annual Meeting Scholarship 2024
- 2024 Leonard Goldner Pioneer Clinical Research Award, American Society for Surgery of the Hand 2024  
*"A Novel Biologic Nerve Interface for Restoring Sensation in Transradial Amputees"*
- University of Michigan Summer Impact Accelerator Program grant recipient, Mentor 2025  
Mentee: Sara Huang
- American Society for Surgery of the Hand Adrian E. Flat Scholarship Recipient 2025

## PUBLICATIONS AND PRESENTATIONS

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### Peer-reviewed publications, exclusive of abstracts

- **Adidharma W**, Leach G, and Yan L. Orexinergic signaling mediates light-induced neuronal activation in the dorsal raphe nucleus. *Neuroscience*. 2012 Sep; 220: 201-207. PMID: 22710065.
- Leach G, **Adidharma W**, and Yan L. Depression-like responses induced by daytime light deficiency in the diurnal grass rat, (*Arvicanthis niloticus*). *PLoS ONE*. 2013 Feb; 8(2): e57115. PMID: 23437327.
- Deats SP, **Adidharma W**, Lonstein JS, and Yan L. Attenuated orexinergic signaling underlies depression-like responses induced by daytime light deficiency. *Neuroscience*. 2014 Jul; 272: 252-260. PMID: 24813431.

- Deats SP, **Adidharma W**, and Yan L. Hypothalamic dopaminergic neurons in an animal model of seasonal affective disorder. *Neurosci Lett*. 2015 Aug; 602: 17-21. PMID: 26116821.
- Birgfeld C, Heike C, Al-Mufarrej F, Oppenheimer A, Kamps S, **Adidharma W**, Siebold, B. Practical Computed Tomography Scan Findings for Distinguishing Metopic Craniosynostosis from Metopic Ridging. *Plast Reconstr Surg Glob Open*. 2019 Mar; 7(3):e1944. PMID: 31044100.
- **Adidharma W**, Deats SP, Ikeno T, Lipton JW, Lonstein JS, Yan L. Orexinergic modulation of serotonin neurons in the dorsal raphe of a diurnal rodent, *Arvicanthus niloticus*. *Horm Behav*. 2019 Nov; 116:104584. PMID: 31445011.
- Parada CA, Osburn JW, Busald T, Karasozen Y, Kaur S, Shi M, Barber J, **Adidharma W**, Cimino PJ, Pan C, Gonzalez-Cuyar LF, Rostomily R, Born DE, Zhang J, Ferreira M Jr. Phosphoproteomic and Kinomic Signature of Clinically Aggressive Grade I (1.5) Meningiomas Reveals RB1 Signaling as a Novel Mediator and Biomarker. *Clin Cancer Res*. 2020 Jan; 26(1):193-205. PMID: 31615938.
- **Adidharma W**, Latack KR, Colohan SM, Morrison SD, Cederna PS. Breast Implant Illness: Are Social Media and the Internet Worrying Patients Sick? *Plast Reconstr Surg*. 2020 Jan; 145(1): 225e-227e. PMID: 31625990.
- Latack K, **Adidharma W**, Nolan IT, Crowe CS, Sowder LL, Satterwhite T, Morrison SD. Staying on Top of Breast Implant Illness: An Analysis of Chest Feminization Experiences. *Plast Reconstr Surg*. 2020 Apr; 145(4): 885e-886e. PMID: 32221263.
- Latack K, **Adidharma W**, Moog D, Satterwhite T, Hadj-Moussa M, Morrison DM. Are we preparing patients for gender affirming surgery?: A thematic social media analysis. *Plast Reconstr Surg*. 2020 Oct; 146(4):519e-521e. PMID: 32649606.
- **Adidharma W**, Lewis SP, Liu Y, Osorio MB, Tse R. Shoulder release and tendon transfer following neonatal brachial plexus palsy: gains, losses, and midline function. *Plast Reconstr Surg*. 2020 Aug; 146(2): 321-331. PMID: 32740582.
- **Adidharma W**, Mercan E, Purnell C, Birgfeld CB, Lee A, Ellenbogen RG, Hopper RA. Evolution of Cranioorbital shape in Nonsyndromic, Muenke, and Saethre-Chotzen Bilateral Coronal Synostosis: A Case-control Study of 2-Year Outcomes. *Plast Reconstr Surg*. 2021 Jan;147(1):148-159. PMID: 33370058.
- Moog D, Latack KR, **Adidharma W**, Haley C, Satterwhite T, Morrison SD. Getting to the Bottom of Patient Experiences with Genital Gender Affirmation Surgery: A Qualitative Analysis of Online Reviews. *Aesthetic Plast Surg*. 2021 Dec;45(6):2290-2995. PMID: 33543343.
- Strong AL, **Adidharma W**, Brown OH, Cederna PS. Fat Grafting Subjectively Improves Facial Skin Elasticity and Hand Function of Scleroderma Patients. *Plast Reconstr Surg Glob Open*. 2021 Jan; 9(1):e3373. PMID: 33552819.
- Liu Y, Lewis SP, **Adidharma W**, Osorio MB, Steinman SE, Allen H, Hottovy J, Tse RW. Reply: Shoulder Release and Tendon Transfer Following Neonatal Brachial Plexus Palsy: Gains, Losses, and Midline Function. *Plast Reconstr Surg*. 2021 Aug; 148(2):314e-315e. PMID: 34228008.
- Latack KR, **Adidharma W**, Moog D, Satterwhite T, Hadj-Moussa M, Morrison SD. Reply: Are We Preparing Patients for Gender-Affirming Surgery? A Thematic Social Media Analysis. *Plast Reconstr Surg*. 2021 Aug; 148(2):319e-320e. PMID: 34228674.
- Kubiak CA, **Adidharma W**, Kung TA, Kemp SWP, Cederna PS, Vemuri C. Decreasing Postamputation Pain with the Regenerative Peripheral Nerve Interface (RPNI). *Ann Vasc Surg*. 2022 Feb; 79:421-426. PMID: 34656720.
- Khouri A, **Adidharma W**, MacEachern M, Haase SC, Waljee JF, Cederna PS, Strong AL. The current state of fat grafting in the hand: a systematic review for hand diseases. *Hand*. 2022 Feb; Online ahead of print. PMID: 35130761.
- **Adidharma L**, **Adidharma W**, Latack KR, Moog D, Morrison SD, Wilkins EG. Quantifying nipple-areolar complex shape and location after transmasculine top surgery: A study of postoperative photographs posted on social media and surgeons' professional websites. *Transgender Health*. 2022 Jul; Online ahead of print.

- **Adidharma W**, Khouri AN, Lee JC, Vanderboll K, Kung TA, Cederna PS, Kemp SWP. Sensory nerve regeneration and reinnervation in muscle following peripheral nerve injury. *Muscle Nerve*. 2022 Oct; 66(4):384-396. PMID: 35779064.
- **Adidharma W**, Nguyen SN, Waljee JF. Noninferiority trial design: Opportunities and challenges. *J Hand Surg Am*. Nov;47(11):1101-1106. PMID: 36182582.
- **Adidharma W**, Tandon VJ, Grant D, Chung KC. Extended abdominal pedicled flap using a modified abdominoplasty incision for the reconstruction of an extensive forearm flap. *J Hand Surg GO*. 2022 Aug; 4(6):367-371. PMID: 36425374.
- Sando IC, **Adidharma W**, Nedic A, Ursu D, Mays E, Hu Y, Kubiak C, Sugg K, Kung T, Cederna P, Gerline G, Kemp SWP, Urbanchek M. Dermal Sensory Regenerative Peripheral Nerve Interface (DS-RPNI) for Re-establishing Sensory Nerve Feedback in Peripheral Afferents in the Rat. *Plast Reconstr Surg*. 2023 May; 151(5):804e-813e. PMID: 36729137.
- **Adidharma W** and Chung KC. Managing time, our most valuable resource. *Plast Reconstr Surg*. 2023 Aug;152(2):255-258. PMID 37498920.
- **Adidharma W**, Wang Y, Kotsis SV, Wang L, Chung KC. Utilization trends of nerve autograft alternatives for the reconstruction of peripheral nerve defects. *Plast Reconstr Surg*. 2023 Oct; Online ahead of print. PMID: 37847584.
- Tian Y, Vaskov AK, **Adidharma W**, Cederna PS, Kemp SWP. Merging humans and neuroprosthetics through regenerative peripheral nerve interfaces. *Semin Plast Surg*. 2024 Feb; 38(1):10-18. PMID 38495064.
- **Adidharma W**, Chung KC. Recent advances in upper extremity microsurgery: from traditional to perforator flaps. *Hand Clinics*. 2024 May; 40(2):161-166. PMID 38553087.
- Levy JJS, Kamdar N, **Adidharma W**, Kemp SWP, Hooper RC. Disparities in prosthesis access based on sex: a retrospective cohort study analyzing time to acquisition after lower limb amputation. *PLoS One*. Submitted.
- **Adidharma W**, Rivera-Santana MV, Jilala RR, Kodali R, Lee JC, Wu KL, Huang SL, Cederna PS, Kemp SWP. The Dermal Sensory Regenerative Peripheral Nerve Interface: A biologic interface for restoring sensation after nerve transection. *Science Advances*. Submitted.

#### Oral/poster presentations

- Yan L., Leach G., **Adidharma W.**, Kott J. A diurnal rodent model of SAD. Washington, DC: Society for Neuroscience, 2011.
- **Adidharma W**, Muller C, Veenstra-VanderWeele J. Somatosensory function in mice with ASD-associated serotonin transporter Gly56Ala variant. Nashville, TN: Vanderbilt Summer Science Academy Symposium poster session. 2013.
- **Adidharma W**, Yan L. Attenuated orexinergic signaling in a diurnal rodent model of SAD. San Diego, CA: Society for Neuroscience, 2013.
- **Adidharma W**, Yan L. Time course characterization of orexin and melanin concentration hormone (MCH) expression in a diurnal rodent model of SAD. East Lansing, MI. University Undergraduate Research and Arts Forum, 2014.
- **Adidharma W**, Parada C, Ferreira M. Kinome profiling reveals retinoblastoma-associated protein (Rb1) dependent cell cycle regulation in a clinically aggressive subset of histologically benign meningioma. Carmel, CA. Western Student and Resident Medical Research Forum, 2017.
- **Adidharma W**, Purnell C, Calis M, Mercan E, Hopper RA. Post-expansion cranial shape and defect healing in Saethre Chotzen bilateral coronal synostosis compared to non-syndromic controls. Paris, France: 18<sup>th</sup> Congress of the International Society of Craniofacial Surgery, Sept 2019.
- **Adidharma W**, Lewis SP, Liu Y, Osorio M, Tse R. Shoulder release and tendon transfer following neonatal brachial plexus palsy: gains, losses, and midline function. American Association for Hand Surgery Annual Meeting, Fort Lauderdale, FL; 2020.

- Khouri AK, **Adidharma W**, MacEachern M, Haase SC, Waljee JF, Cederna PS, Strong AL. The current state of fat grafting in the hand: a systematic review for hand diseases. Dingman Research Day, Ann Arbor, MI; May 16, 2022.
- Dedashtian A, Cinotto G, Guy EL, Kozma KD, Huang SL, Burke KL, **Adidharma W**, Cederna PS, Kemp SWP. Independent control of sensorimotor function using superficial regenerative peripheral nerve interfaces (S-RPNIs) in a rat model. American Society for Peripheral Nerve Annual Meeting, Miami, FL; January 20-22, 2023.
- **Adidharma W**, Lee JC, Dedashtian A, Cederna PS, Kemp SWP. The Dermal Sensory Peripheral Nerve Interface (DS-RPNI) for re-establishing sensory feedback in peripheral afferents. American Society for Peripheral Nerve Annual Meeting, Miami, FL; January 20-22, 2023.
- **Adidharma W**, Lee JC, Rivera-Santana M, Dehdashtian A, Cederna PS, Kemp SWP. Functional Reinnervation of Cutaneous Mechanoreceptors in a Biologic Patient-Prosthetic Peripheral Nerve Interface for the Restoration of Sensory Feedback, Plastic Surgery Research Council 68<sup>th</sup> Annual Meeting, Cleveland, OH; April 13-16, 2023.
- Wu, KL, Huang SL, **Adidharma W**, Jillala R, Santana-Rivera MV, Kozma KD, Cederna PS, Kemp SWP. Attenuation of neuroma pain with regenerative peripheral nerve interfaces after common peroneal transection injury in a rodent model. Moses Gunn Research Conference 2023, Ann Arbor, MI. May 19, 2023.
- Santana-Rivera MV, **Adidharma W**, Jillala R, Vaskov AK, Kozma KD, Cederna PS, Kemp SWP. Reinnervation of Dermal Grafts Can Facilitate Sensory Feedback in Transected Peripheral Afferents. Moses Gunn Research Conference 2023, Ann Arbor, MI. May 19, 2023.
- Jillala R, **Adidharma W**, Vaskov AK, Santana-Rivera MV, Huang SL, Cederna PS, Kemp SWP. A novel biologic peripheral nerve interface facilitates bidirectional sensorimotor signaling essential for closed-loop prosthetic control. Moses Gunn Research Conference 2023, Ann Arbor, MI. May 19, 2023.
- **Adidharma W**, Huang S, Jillala R, Santana-Rivera M, Kozma K, Vaskov A, Cederna PS, Kemp SWP. Peripheral Nerve Reinnervation of a Combined Dermal and Muscle Graft Construct Prevents Neuropathic Pain After Transection Injury. Peripheral Nerve Society, Copenhagen, Denmark. June 17-20, 2023.
- **Adidharma W**, Santana-Rivera M, Jillala R, Kozma K, Cederna, PS, Kemp SWP. Functional Reinnervation of a Peripheral Nerve Interface After Nerve Transection Can Facilitate Sensory Feedback and Prevent Neuroma Formation. Peripheral Nerve Society, Copenhagen, Denmark. June 17-20, 2023.
- **Adidharma W**, Jillala R, Vaskov AK, Wu KL, Rivera-Santana, MV, Huang SL, Cederna PS, Kemp SWP. Bidirectional sensorimotor signaling using the composite regenerative peripheral nerve interface (C-RPNI) in a rodent model. 14<sup>th</sup> Meeting of the European Plastic Surgery Research Council, Geneva, Switzerland. Aug 24-27, 2023.
- Shabet CL, **Adidharma W**, Waljee JF, Brown DL. Factors Associated with Delays in Care for Painful Neuromas. 78<sup>th</sup> American Society for Surgery of the Hand Annual Meeting, Toronto, ON. Oct 5-7, 2023.
- **Adidharma W**, Jillala RR, Vaskov AK, Kodali R, Huang S, Wu KL, Rivera-Santana MV, Cederna PS, Kemp SWP. The Composite Regenerative Peripheral Nerve Interface (C-RPNI) Facilitates Bidirectional Sensorimotor Signaling in a Rodent Model. American Society for Peripheral Nerve Annual Meeting, Nassau, Bahamas. Jan 12-14, 2024.
- Lee JC, **Adidharma W**, Kemp SWP, Kung TA. Risk Factors Associated with Secondary Surgical Procedures for Pain Following Initial Regenerative Peripheral Nerve Interface (RPNI) Surgery. American Society for Peripheral Nerve Annual Meeting, Nassau, Bahamas. Jan 12-14, 2024.
- Levy JJS, Zarska A, Beharry K, Castro AN, Pourak K, **Adidharma W**, Kemp SWP, Hooper R. Time Lag and Factors Impacting Prosthetic Acquisition Following Major Lower Extremity Amputations. 19<sup>th</sup> Annual Academic Surgical Congress, Washington, DC. Feb 6-8, 2024.
- Levy JJS, Kamdar N, **Adidharma W**, Kemp SWP, Hooper R. Gender-Based Analysis of Time Interval Between Lower Extremity Amputation and Prosthetic Acquisition. 19<sup>th</sup> Annual Academic Surgical Congress, Washington, DC. Feb 6-8, 2024.

- **Adidharma W**, Kodali R, Jillala RR, Huang SL, Santana-Rivera MV, Kozma KD, Cederna PS, Kemp SWP. The Composite Regenerative Peripheral Nerve Interface (C-RPNI) can facilitate multimodal sensory afferent signaling after mixed nerve transection. Plastic Surgery Research Council, Boston, MA. May 16-19, 2024.
- Huang SL, **Adidharma W**, Kodali R, Maurer R, Kozma KD, Wu KL, Santana-Rivera MV, Cederna PS, Kemp SWP. Attenuation of neuroma pain with the Composite Regenerative Peripheral Nerve Interface (C-RPNI). Plastic Surgery Research Council, Boston, MA. May 16-19, 2024.
- Rivera-Santana MV, Alkaabi F, Tian Y, **Adidharma W**, Wang X, Scheven U, Wu X, Cederna PS, Liu Z, Kemp SWP. Altered functional connectivity in pain-relevant brain regions after peripheral nerve injury and muscle graft repair. Plastic Surgery Research Council, Boston, MA. May 16-19, 2024.
- Y. Tian, H. Kuperus, K. Burke, K. Kozma, R. Kodali, **W. Adidharma**, B. Gillespie, S. Kemp. Development of Bionic Exoskeleton Control via the Muscle-Cuff Regenerative Peripheral Nerve Interface (MC-RPNI) in a Rat Model. Rice Neuroengineering Conference (InterfaceRice), Houston, TX. Apr 30-May 1, 2024.
- **Adidharma W**, Kodali R, Jillala RR, Huang SL, Rivera-Santana MV, Cederna PS, Kemp SWP. The Composite Regenerative Peripheral Nerve Interface (C-RPNI) facilitates multimodal sensory signaling after nerve transection. 15<sup>th</sup> European Plastic Surgery Research Council, Brno, Czech Republic. Aug 22-24, 2024.
- Levy JJS, **Adidharma W**, Wierenga AJ, Kodali R, Cederna PS, Akaaboune M, Kemp SWP. Comparison of crushed and healthy muscle grafts in Regenerative Peripheral Nerve Interfaces. 15<sup>th</sup> European Plastic Surgery Research Council, Brno, Czech Republic. Aug 22-24, 2024. Accepted.
- **Adidharma W**, Tian Y, Kodali R, Stoneback L, Nicovic MR, Jeevaraj JS, Jillala RR, Cederna PS, Lepley LK, Kemp SWP. The Composite Regenerative Peripheral Nerve Interface (C-RPNI) facilitates sensorimotor signaling during volitional ambulation. American Society for Peripheral Nerve Annual Meeting, Waikoloa Village, HI. Jan 17-19, 2025.
- **Adidharma W**, Rivera-Santana MV, Alkaabi F, Tian Y, Jeevaraj JS, Cederna PS, Liu Z, Kemp SWP. Prophylactic RPNI surgery attenuates maladaptive connectivity changes in pain-relevant brain regions that occur after nerve transection injury. American Society for Peripheral Nerve Annual Meeting, Waikoloa Village, HI. Jan 17-19, 2025.
- Mohanty AJ, Saunders MN, Kung TA, Kemp SWP, Cederna PS, Brown DL, **Adidharma W**. Outcomes of Targeted Sensory Neurectomy Combined with Dermal Sensory Regenerative Peripheral Nerve Interface Surgery (DS-RPNI) as Treatment for Chronic Neuropathic Pain of the Foot and Ankle. American Society for Peripheral Nerve Annual Meeting, Waikoloa Village, HI. Jan 17-19, 2025.
- Levy JJS, **Adidharma W**, Wierenga AJ, Tian Y, Kodali R, Cederna PS, Akaaboune M, Kemp SWP. Use of Traumatically Injured Muscle in Regenerative Peripheral Nerve Interface. American Society for Peripheral Nerve Annual Meeting, Waikoloa Village, HI. Jan 17-19, 2025.
- **Adidharma W**, Kodali R, Tian Y, Stoneback L, Nicovic MR, Jeevaraj JS, Jillala RR, Cederna PS, Lepley LK, Kemp SWP. Physiologic sensorimotor neural signaling with the Composite Regenerative Peripheral Nerve Interface (C-RPNI) in a rodent model. Plastic Surgery Research Council 70<sup>th</sup> Annual Meeting, St. Louis, MO, May 1-4, 2025.
- Levy JJS, **Adidharma W**, Wierenga AJ, Tian Y, Bordin A, Kodali R, Cederna PS, Akaaboune M, Kemp SWP. Traumatically Injured Muscle Model in Regenerative Peripheral Nerve Interface. Plastic Surgery Research Council 70<sup>th</sup> Annual Meeting, St. Louis, MO, May 1-4, 2025.
- Tian Y, Alkaabi FM, Rivera-Santana MV, **Adidharma W**, Cederna PS, Liu Z, Kemp SWP. Resting state functional MRI reveals connectivity changes in the pain matrix following prophylactic RPNI surgery. Plastic Surgery Research Council 70<sup>th</sup> Annual Meeting, St. Louis, MO, May 1-4, 2025.
- **Adidharma W**, Tian Y, Burke KL, Kodali R, Stoneback L, Rastegar A, Lee C, Kuperus HR, Gillespie RB, Cederna PS, Lepley LK, Kemp SWP. Accurate detection of motor intent with the Muscle Cuff Regenerative Peripheral Nerve Interface (MC-RPNI). European Plastic Surgery Research Council, Utrecht, The Netherlands, Aug 21-23, 2025.

- **Adidharma W**, Tian Y, Burke KL, Kodali R, Stoneback L, Rastegar A, Lee C, Kuperus HR, Gillespie RB, Cederna PS, Lepley LK, Kemp SWP. The Muscle Cuff Regenerative Peripheral Nerve Interface (MC-RPNI) for the Accurate Detection of Motor Intention. American Society for Surgery of the Hand 80<sup>th</sup> Annual Meeting, Vancouver, BC, Canada, Oct 9-11, 2025, Accepted.
- Bailey Z, Cuttaz E, Lee A, **Adidharma W**, Portillo-Lara R, Turner E, Goding J, Kemp SWP, Roche A, Green R. Development of auxetic-patterned electrode array for Regenerative Peripheral Nerve Interfaces. 12<sup>th</sup> International IEEE/EMBS Conference on Neural Engineering, San Diego, CA, Nov 11-14, 2025, Accepted.
- Bailey Z, Lee A, Cuttaz E, **Adidharma W**, Turner E, Portillo-Lara R, Goding J, Kemp SWP, Roche A, Green R. A conformable, meshed electrode array facilitates multi-channel sensorimotor signaling with the Regenerative Peripheral Nerve Interface. Bionic Limb Reconstruction Symposium, Vienna, Austria, Dec 3-5, Submitted.

### Textbooks

- Brown DL, **Adidharma W**, Hespe G (2023). *Michigan Manual of Plastic Surgery* (3<sup>rd</sup> edition). New York: Wolter Kluwer.

### Book Chapters

- Lee JC and **Adidharma W** (2023). *Grafts*. In DL Brown, W Adidharma, and GE Hespe (Eds.), *Michigan Manual of Plastic Surgery*, (3<sup>rd</sup> ed., pp. 20-28). Wolter Kluwer.
- Lee JC and **Adidharma W** (2023). *Flaps*. In DL Brown, W Adidharma, and GE Hespe (Eds.), *Michigan Manual of Plastic Surgery*, (3<sup>rd</sup> ed., pp. 29-39). Wolter Kluwer.
- **Adidharma W** (2023). *Tendon Transfers*. In DL Brown, W Adidharma, and GE Hespe (Eds.), *Michigan Manual of Plastic Surgery*, (3<sup>rd</sup> ed., pp. 399-404). Wolter Kluwer.
- Hespe GE and **Adidharma W** (2023). *How to excel during your plastic surgery sub-internship*. In DL Brown, W Adidharma, and GE Hespe (Eds.), *Michigan Manual of Plastic Surgery*, (3<sup>rd</sup> ed., pp. 683-684). Wolter Kluwer.

## PANELS and INVITED LECTURES

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- Invited Lecture, American Society for Peripheral Nerve ASPN/PSF Award Grant Recipient  
Miami, Florida—Jan 2023  
“Developing the DS-RPNI for Re-Establishing Sensory Feedback in Peripheral Afferents”
- Panelist, Plastic Surgery Research Council  
Cleveland, Ohio—April 2023  
“Tips and Tricks for a Successful Research Fellowship”
- Invited Lecture, Faculty of Medicine Universitas Indonesia (FKUI) Plastic Surgery  
Jakarta, Indonesia—June 2024  
“RPNI for the prevention and management of neuroma pain”
- Invited Lecture, Faculty of Medicine Universitas Indonesia (FKUI) Plastic Surgery  
Jakarta, Indonesia—June 2024  
“Life as a University of Michigan Plastic Surgery Resident”
- Invited Lecture, Medical University of Vienna, Department of Plastic Surgery  
Vienna, Austria—Aug 2024  
“The future of bidirectional sensorimotor control of robotic limbs”
- Invited Lecture, Cancer Institute Hospital of Japanese Foundation for Cancer Research  
Tokyo, Japan—Sep 2025  
“The basic science behind the Regenerative Peripheral Nerve Interface (RPNI)”
- Invited Lecture, Taiwan Society for Reconstructive Microsurgery  
Taoyuan City, Taiwan—Dec 2025  
“Muscle Cuff Regenerative Peripheral Nerve Interface (MC-RPNI) for robotic exoskeleton control”

## PATENTS

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- Multiple electrodes for enhanced RPNI signaling (UM2023-501-02). Filed May 17, 2024. Paul Cederna, Stephen Kemp, Alex Vaskov, Widya Adidharma, Theodore Kung, Cynthia Chestek, Philip Vu.
- Bidirectional interface with electrodes in different tissues for composite regenerative peripheral nerve interface (C-RPNI) (UM2024-515-01). Filed May 17, 2024. Paul Cederna, Stephen Kemp, Theodore Kung, Alex Vaskov, Widya Adidharma, Carrie Kubiak, Shelby Svientek, Cynthia Chestek.
- Composite Cuff Regenerative Peripheral Nerve Interface (CC-RPNI) (UM2024-516-01). Filed May 17, 2024. Paul Cederna, Stephen Kemp, Widya Adidharma, Alex Vaskov, Theodore Kung
- Muscle Cuff and Skin Regenerative Peripheral Nerve Interface (RPNI) with electrodes in muscle and skin (UM2024-517-01). Paul Cederna, Stephen Kemp, Widya Adidharma, Alex Vaskov, Ritvik Jillala

## LEADERSHIP and SERVICE

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### Leadership/Committees:

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|---|--------------|
| • Medical Student Association Vice President<br>University of Washington School of Medicine (UWSOM) | 2015-2017    |
| • Plastic Surgery Hope Clinic lead, University of Michigan, Section of Plastic Surgery              | 2021-2023    |
| • Visiting professor liaison, University of Michigan, Section of Plastic Surgery                    | 2022-2024    |
| • Resident recruitment committee lead, University of Michigan, Section of Plastic Surgery           | 2022-2023    |
| • Social Committee chair, University of Michigan, Section of Plastic Surgery                        | 2023-2024    |
| • American Society of Plastic Surgeons (ASPS) Resident Council Representative                       | 2024-Present |

### Professional Societies:

- |  |              |
|--|--------------|
| • Alpha Omega Alpha  | 2018-2020    |
| • American Society of Plastic Surgeons—Resident Physician Member     | 2019-Present |
| • Peripheral Nerve Society—Junior Member                             | 2022-2024    |
| • American Society for Surgery of the Hand—Resident Candidate Member | 2023-Present |

### Community service:

- |  |              |
|--|--------------|
| • Student Health Initiative for Access (SHIFA) clinic volunteer, UWSOM     | 2016-2019    |
| • Plastic Surgery Hope Clinic, University of Michigan                      | 2019-2023    |
| • Suturing course educator for medical students entering surgery clerkship | 2019-Present |

### Other:

- |  |               |
|--|---------------|
| • MSU Society of Asian Scientists and Engineers: President                                 | 2010-2012     |
| • alpha Kappa Delta Phi sorority: President (2012-2013), VP Service 2012                   | 2011-2014     |
| • MSU Undergraduate Neuroscience Club: Founder and Co-President                            | 2012-May 2014 |
| • Asian Pacific American Student Organization: President (2013-14)                         | 2012-2015     |
| • UW badminton club: Vice president (2015-2016)  | 2015-2019     |
| • Mentor for pre-medical students in Alliance for Equal Representation in Medicine, UWSOM  | 2017-2018     |
| • Mentor for pre-medical students in Alpha Epsilon Delta Pre-Medical Honors Society, UWSOM | 2018          |
| • Interviewer of medical school applicants, UWSOM  | 2018-2019     |