CURRICULUM VITAE

Erik Patrick Dutson, MD, FACS

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h-index (all-time): 43

i10-index (all-time): 97

Total Citations: 8855

EDUCATION

2001 – 2002 Diploma in Laparoscopic Surgery Université Louis Pasteur Strasbourg, France

1991 – 1995 Doctor of Medicine Eastern Virginia Medical School Norfolk, Virginia

1986 – 1990 Bachelor of Science in Psychology (Chemistry Minor) College of William and Mary Williamsburg, Virginia

POSTDOCTORAL TRAINING

2001 – 2003 Postdoctoral Fellow, Minimally Invasive, Robotic and Virtual Reality Surgery European Institute of Telesurgery (IRCAD/EITS) Université Louis Pasteur, Strasbourg, France

1999 – 2000 Chief Resident, General Surgery Eastern Virginia Medical School Norfolk, Virginia

1996 – 1999 Resident, General Surgery Eastern Virginia Medical School Norfolk, Virginia

1995 – 1996 Intern, General Surgery Eastern Virginia Medical School Norfolk, Virginia

BOARD CERTIFICATION

American Board of Surgery Diplomate: June 4, 2001. Recertification: January 2011, October 2022, October 2025

ADDITIONAL CERTIFICATIONS & TRAINING

- Advanced Laparoscopic Techniques – IRCAD/EITS (January 2001)
- da Vinci Surgical System – Intuitive Surgical (April 22, 2004)
- Laparoscopic Hepatic Liver Certificate – Covidien (August 2007)
- General Medical Council, United Kingdom (August 2008)
- Fundamentals of Laparoscopic Surgery (FLS) (March 2009)
- Fundamentals of Endoscopic Surgery (FES) (June 6, 2014)
- Fundamentals of Use of Surgical Energy (FUSE) (July 24, 2015)
- Basic Life Support (BLS) – American Red Cross (April 9, 2025)

- Advanced Trauma Life Support (ATLS) – American College of Surgeons, ID #3049992 (Issued July 6, 2026; Expires July 6, 2030)

MEDICAL LICENSURE

- New Hampshire (active)
- California (active)
- Minnesota (active)
- Vermont (active)
- Interstate Medical Licensure Compact Commission (active)

MOST RECENT POSITIONS

Independent Contractor, Locum Tenens General Surgeon Weatherby Healthcare 2026 – present

Chief of Surgery Huggins Hospital Wolfeboro, New Hampshire 2025

General Surgeon Huggins Hospital Wolfeboro, New Hampshire 2024 – 2026

PREVIOUS LEADERSHIP & ADMINISTRATIVE POSITIONS (UCLA)

Executive Director UCLA Center for Advanced Surgical and Interventional Technology (CASIT) 2017 – 2023

Executive Medical Director UCLA Center for Advanced Surgical and Interventional Technology (CASIT) 2012 – 2017

Chief Section of Minimally Invasive and Bariatric Surgery Division of General Surgery 2012 – 2023

Surgical Director UCLA Center for Obesity and Metabolic Health (COMET) 2012 – 2023

Director UCLA Minimally Invasive Surgery Fellowship 2006 – 2012

Co-Director UCLA Center for Advanced Surgical and Interventional Technology (CASIT) 2006 – 2012

ACADEMIC APPOINTMENTS (David Geffen School of Medicine at UCLA)

Clinical Professor of Surgery 2014 – 2024

Associate Clinical Professor of Surgery 2009 – 2014

Assistant Clinical Professor of Surgery 2003 – 2009

HOSPITAL APPOINTMENTS

General Surgeon Huggins Hospital Wolfeboro, New Hampshire 2024 – 2026

Attending General Surgeon Ronald Reagan UCLA Medical Center, Los Angeles, California 2003 – 2024

Attending General Surgeon Santa Monica UCLA Medical Center, Santa Monica, California 2003 – 2024

Attending Staff Surgeon Good Samaritan Hospital / The Corvallis Clinic, Corvallis, Oregon 2001

Attending General Surgeon Beloit Memorial Hospital / The Beloit Clinic, Beloit, Wisconsin 2001

Attending Trauma Surgeon North Hawaii Community Hospital, Waimea, Hawaii 2000 – 2001

Attending General Surgeon Veteran's Administration Medical Center, Marion, Illinois 2000

Interim Chief of Surgery Veteran's Administration Medical Center, Iron Mountain, Michigan 2000

SELECTED ACADEMIC & HOSPITAL COMMITTEES

- Medical Executive Committee, Huggins Hospital 2025
- Peer Review Committee, Huggins Hospital 2025
- CASIT Executive Committee, Ronald Reagan UCLA Medical Center (2003 – 2024)
- Division of General Surgery Clinic Relocation Committee (2005)
- Surgical Education Committee, David Geffen School of Medicine at UCLA (2005 – present)
- Clinical Robotics OR Subcommittee, Ronald Reagan UCLA Medical Center (2006 – 2024)
- Medical Staff Health Committee, Ronald Reagan UCLA Medical Center (2006 – 2023)
- Esophageal Center, David Geffen School of Medicine at UCLA (2006 – 2024)
- Simulation Center Steering Committee, Ronald Reagan UCLA Medical Center (2007 – 2009)
- Patient Advocacy Reporting System (PARS) Committee, UCLA Health Systems (2012 – 2016)
- Same Day Access Initiative, Ronald Reagan UCLA Medical Center (2013 – 2024)
- Theme Committee for the Future of the David Geffen School of Medicine (2013 – 2024)

TEACHING RESPONSIBILITIES & EDUCATIONAL LEADERSHIP

- Resident Education Laparoscopic Curriculum (2003 – 2024)
- SU394.01 Minimally Invasive and Bariatric Surgery, UCLA School of Medicine (2004 – 2024)
- CM172. Design of Minimally Invasive Surgical Tools, UCLA Biomedical Engineering (2004 – 2024)
- Proctor, UCLA Clinical Robotics Program (2004 – 2024)

- BE180L. System Integration in Biology, Engineering, and Medicine I Laboratory, UCLA Bioengineering (2005 – 2024)
- Charter Member, UCLA Surgical Education Initiative (2005 – 2024)
- Director, UCLA Minimally Invasive and Bariatric Surgery Fellowship (2006 – 2012)
- Director, UCLA International Minimally Invasive Surgery Fellowship/Observership (2013 – 2024)
- UCLA Student Research Program (SRP) 199 (2015 – 2024)

MENTORSHIP – UNDERGRADUATE STUDENTS (Preceptor)

- 2006 – 2008: Behnam Sharareh (Bioengineering) – "Flexible Ultrasound Arrays for Medical Imaging"
- 2006 – 2008: Shiran Shalev (Bioengineering) – "Flexible Ultrasound Arrays for Medical Imaging"
- 2007 – 2008: David Goldenberg (Biology) – "Flexible Ultrasound Arrays for Medical Imaging"
- 2008: Pat Satkunananthan (Bioengineering) – "Flexible Ultrasound Arrays for Medical Imaging"
- 2008: Adam Feinman (Bioengineering) – "Surgical Augmentation through Pneumatic Haptic Feedback"
- 2008: Rohit Mitra (Mechanical and Aerospace Engineering) – "Intraocular Robotic Surgery," "Flexible Ultrasound Arrays for Medical Imaging," "Surgical Augmentation through Pneumatic Feedback," "Collaborative Research: Development and Evaluation of Reflective THz Medical Imaging for Skin Burns"
- 2008: Brian Cox (Electrical Engineering) – "Flexible Ultrasound Arrays for Medical Imaging," "Surgical Augmentation through Pneumatic Feedback," "Accelerated prosthetic rehabilitation with a pneumatic thin film haptic feedback system"
- 2008 – 2009: William Pannell (Mechanical and Aerospace Engineering) – "Haptic-Guided Telementoring System"
- 2012 – 2013: Jacob Sharf (Computer Science) – "Haptics Prosthetics/Neuropathy"
- 2012 – 2013: Justin Thai (Biology) – "Retinal Adhesive for Retinal Detachment"
- 2012 – 2013: Ivneet Bhullar (Bioengineering) – "THz Imaging for Burn Wounds," "Non-Contact, THz Sensing of Corneal Hydration"
- 2015 – 2019: Anna Tao (Bioengineering) – "Haptic Feedback for Robotic Surgery using bi-axial capacitive force sensors"
- 2020 – 2024: Richard Tirado (Bioengineering) – "Haptic Feedback for Robotic Surgery using fiber optic force sensors"

MENTORSHIP – GRADUATE STUDENTS (Preceptor)

- 2005 – 2006: Roy Hwang, MS (Biomedical Engineering) – "Surgical Augmentation through Pneumatic Haptic Feedback"
- 2005 – 2006: Adrienne Higa, MS (Biomedical Engineering) – "A balloon-based haptic feedback system for minimally invasive and robotic surgical instrumentation" (Master's Thesis, UCLA, 2006)
- 2007 – 2008: Miguel Franco, MS (Biomedical Engineering) – "Mountable and functional pneumatic haptic feedback actuator arrays for surgical robotics and prostheses" (Master's Thesis, UCLA, 2008)
- 2005 – 2006: James Lin (Biomedical Engineering) – "Surgical Augmentation through Pneumatic Haptic Feedback"
- 2007 – 2008: Shyam Natarajan (Biomedical Engineering) – "Flexible Ultrasound Arrays for Medical Imaging"
- 2006 – 2007: Stephen Vampola (Biomedical Engineering) – "Flexible Ultrasound Arrays for Medical Imaging"
- 2007 – 2008: Michael Lee (Biomedical Engineering) – "Flexible Ultrasound Arrays for Medical Imaging"
- 2008 – 2009: Brett Jordan, MS (Mechanical and Aerospace Engineering) – "Haptic-Guided Telementoring System"
- 2008 – 2009: Aaron Dann-Gibbs, MS (Biomedical Engineering) – "Accelerated prosthetic rehabilitation with a pneumatic thin film haptic feedback system"
- 2009 – 2010: Steven Wu, MS (Biomedical Engineering) – "Tactile vest-based system for the restoration of balance deficits"
- 2010: Florian Kasper, MS (Electrical Engineering) – "Critical Communication and Control Factors in Telementoring and Telesurgery" (Université Paul Sabatier, Toulouse, France)
- 2012 – 2013: James Garritano, MS (Bioengineering) – "THz Imaging of Burn Wounds," "Non-Contact, THz Sensing of Corneal Hydration"

MENTORSHIP – DOCTORAL CANDIDATES (Preceptor)

- 2005 – 2008: Chih-Hung Aaron King, PhD (Biomedical Engineering) – "Design, fabrication, optimization and evaluation of a multinodal tactile feedback system for teleoperated robot-assisted minimally invasive surgery" (PhD Dissertation, UCLA, 2008)
- 2005 – 2007: Sam Bae (Biomedical Engineering) – "Surgical Augmentation through Pneumatic Haptic Feedback"
- 2005 – 2008: Vasile Nistor (Mechanical and Aerospace Engineering) – "Haptic-Guided Telementoring System"
- 2005 – 2011: Brian Allen (Computer Science) – "Haptic-Guided Telementoring System," "Critical Communication and Control Factors in Telementoring and Telesurgery"

- 2007 – 2010: Richard Fan (Biomedical Engineering) – "Accelerated prosthetic rehabilitation with a pneumatic thin film haptic feedback system"
- 2007 – 2013: Amit Mulgaonkar (Biomedical Engineering) – "Surgical Augmentation through Pneumatic Haptic Feedback," "Accelerated prosthetic rehabilitation with a pneumatic thin film haptic feedback system," "Intraocular Robotic Surgery," "Artificial Muscles"
- 2007 – 2012: Chris Wottowa (Biomedical Engineering) – "Surgical Augmentation through Pneumatic Haptic Feedback"
- 2007 – 2013: Priyamvada Tewari (Biomedical Engineering) – "Flexible Ultrasound Arrays for Medical Imaging," "Collaborative Research: Development / Evaluation of Reflective THz Medical Imaging for Skin Burns"
- 2007 – 2012: David Bennett (Electrical Engineering) – "Laser-generated shockwaves for treatment of infected wounds"
- 2009 – 2010: Zachary Taylor (E.E., UCSB) – "Laser-generated shockwaves for treatment of infected wounds"
- 2009 – 2014: Christopher Lim (MAE) – "Critical Communication and Control Factors in Telementoring and Telesurgery"
- 2009 – 2014: Stephen Prince (MAE) – "Critical Communication and Control Factors in Telementoring and Telesurgery"
- 2009 – 2015: Marko Kostic (BME) – SITH Lab, TATRC
- 2010 – 2016: Neha Bajwa (BME) – "Evaluation of Reflective THz Medical Imaging for Skin Burns," "Laser-generated shockwaves for treatment of infected wounds"
- 2011 – 2013: Zachary Taylor, PhD (Bioengineering) – "THz imaging, Laser-Generated Shockwaves"
- 2011 – 2016: Shijun Sung (Bioengineering) – "Evaluation of Reflective THz Medical Imaging for Skin Burns," "Non-Contact, THz Sensing of Corneal Hydration"
- 2011 – 2016: Meghedi Babakhanian (Bioengineering) – "Low-Intensity Focused Ultrasound (LIFU) for Neuromodulation"
- 2011 – 2016: Zach McKinney (Bioengineering) – "Accelerated prosthetic rehabilitation with a pneumatic thin film haptic feedback system"
- 2012 – 2013: Alan Priester (Bioengineering) – "Surgical Roots, Focal Prostate Therapy"
- 2012 – 2013: Bryan Nowroozi, PhD (Bioengineering) – "Robotic surgery, haptic feedback, terahertz imaging, low intensity focused ultrasound, Bacterial Biofilm Disruption, and retinal detachment therapy"
- 2012 – 2017: Shyam Natarajan, PhD (Surgery/Bioengineering/Urology) – "Prostate cancer, MRI – Ultrasound image fusion, multi-modal imaging techniques, catheter-based imaging devices, embedded systems, health monitoring, signal processing"
- 2011 – 2016: Omeed Paydar (Bioengineering) – "Tactile Sensors for Minimally Invasive Surgical Systems"

- 2013 – 2018: Ahmad Abiri, PhD (Bioengineering) – "Robotic Surgery, Haptic Feedback, Virtual Reality based hemorrhage modeling, VR based Hepatic injury modeling"
- 2014 – 2019: Yuan Dai (Electrical Engineering) – "Development of Capacitive Tactile Sensors for Surgical Systems"
- 2017 – 2020: Sahba Aghajani Pedram (Mechanical Engineering) – "Towards Building Autonomy and Intelligence for Surgical Robotic Systems using Trajectory Optimization, Stochastic Estimation, Vision-based Control, and Machine Learning Algorithms"
- 2017 – 2020: Peter Pellionisz (Bioengineering) – "Clinical Translation of Dynamic Optical Contrast Imaging for Label-Free Tissue Identification and Surgical Navigation in Head and Neck Oncology"
- 2018 – present: Jake Pensa (Bioengineering) – "Robotic Surgery, Haptic Feedback, Virtual Reality based hemorrhage modeling, VR based Hepatic injury modeling"
- 2019 – present: Songping Sun (Bioengineering) – "Robotic Surgery, Haptic Feedback, Virtual Reality based hemorrhage modeling, VR based Hepatic injury modeling"

MENTORSHIP – SURGICAL LABORATORY RESIDENTS

- 2003 – 2005: Todd Drasin, MD
- 2005 – 2007: Soo Hwa Han, MD
- 2007 – 2009: Catherine Lewis, MD
- 2009 – 2012: Colin Kealey, MD
- 2014 – 2016: Bradley Genovese, MD
- 2016 – 2018: Yen-Yi Juo, MD
- 2017 – 2019: Yas Sanaiha, MD
- 2018 – 2019: Joe Pantoja, MD
- 2019: Yang Lu, MD
- 2020 – 2021: Gabriel Oland, MD
- 2020 – 2022: Ivy Huang, MD
- 2020 – 2022: Zachary Weitzner, MD

MENTORSHIP – MINIMALLY INVASIVE SURGERY FELLOWS

- 2003 – 2004: Aileen M. Takahashi, MD (Current: Community Surgeon, Torrance, CA)
- 2004 – 2005: William Bertucci, MD (Current: Surgeon, Naval Medical Center, San Diego, CA)
- 2004 – 2005: John Yadegar, MD (Current: Community Surgeon, Lancaster, CA)
- 2005 – 2006: Stephen C. White, MD (Current: Community Surgeon, Shreveport, LA)
- 2005 – 2006: Kaushal Patel, MD (Current: Vascular Surgery Fellow, USC, Los Angeles, CA)

- 2006 – 2007: Nicole R. Basa, MD (Current: Community Surgeon, Austin, TX)
- 2007 – 2008: Candice Jensen, MD (Current: Community Surgeon, Yuma, AZ)
- 2007 – 2008: Talar Tejirian, MD (Current: Community Surgeon, Los Angeles, CA)
- 2008 – 2009: Jessica Folek (Current: Community Surgeon, Eugene, OR)
- 2009 – 2010: Camellia Racu (Current: Community Surgeon, San Diego, CA)
- 2010 – 2011: Tony Chan, MD (Current: Community Surgeon, Torrance, CA)
- 2011 – 2012: Scott Um, MD (Current: Community Surgeon, Los Angeles, CA)
- 2013 – 2013: King Hung Daniel Tong, MD (Current: Community Surgeon, Hong Kong)
- 2014 – 2015: Yeon Soo Chang, MD (Current: Academic Surgeon, Seoul, Korea)
- 2014 – 2015: Kyungwon Seo, MD (Current: Academic Surgeon, Busan, Korea)
- 2018 – 2020: Tongthat Wongpongsalee, MD (Current: Academic Surgeon, Bangkok, Thailand)

PROFESSIONAL SOCIETY MEMBERSHIPS

- American College of Surgeons – Fellow (1999 – present)
- L.D. Britt Surgical Society (2000 – present)
    - Vice President (2007 – 2010)
    - President (2010 – 2012)
    - Adjudicator, EVMS Resident Scientific Forum (2011 – 2012)
- Society of American Gastrointestinal Endoscopic Surgeons (2002 – present)
- Society of Laparoendoscopic Surgeons (2003 – 2010)
- Society of Robotic Surgery (formerly Minimally Invasive Robotic Association) (2007 – 2016)
- Pacific Coast Surgical Association (2007 – 2016)
- American Society of Metabolic and Bariatric Surgery (2009 – 2023)
- American Telemedicine Association (2013 – 2019)

EDITORIAL BOARD APPOINTMENTS & PEER REVIEW

- Editorial Staff, www.WebSurg.com – American editor and website CME co-coordinator (2001 – 2003)

Ad Hoc Reviewer

- The American Surgeon (2008 – present)
- Surgical Endoscopy (2003 – present)
- Surgery of Obesity and Related Diseases (2005 – present)
- Journal of the American College of Surgeons (2005 – present)

- Annals of Surgery (2013 – present)
- JAMA Surgery (2019 – present)
- Journal of Robotic Surgery (2016- present)

NATIONAL COMMITTEE SERVICE

- Society of American Gastrointestinal Endoscopic Surgeons Minimally Invasive Surgery Fellowship Council
    - Technology Committee (2010 – 2023)
    - FLS Committee (2010 – 2023)
- ACS Surgical Forum Reviewer/Commentator (2007, 2012)
- National Aeronautics and Space Administration (NASA) National Space Biomedical Research Institute (NSBRI) Review Panel – Human Research Panel (2007 – 2017)
- NASA Exploration Medical Standing Review Panel (2009 – 2016)
- CASIT Delegate – "UCLA Day in DC" (presentations with congressional legislators and White House policy advisor to President Obama) (2011)
- NIH Study Sections – National Advisory Council for Biomedical Imaging and Bioengineering Scientific Review Group: ZRG1 SBIB-Q 80 S, Computational Modeling and Sciences for Biomedical and Clinical Applications (2011 – 2022)
- ZRG1 SBIB-Y (12) "Cardiovascular and Surgical Devices" (2017 – 2022)
- ACS Surgical Simulation Educator Certification Advisory Committee (2020 – 2023)

COMMUNITY SERVICE

- Medical Mission to Hospital de la Familia, Nuevo Progreso, Guatemala (2018)
- Advisory Board, Loyola Marymount University Healthcare Systems Engineering Master's Program (2018 – 2020)
- Marymount High School SAILL mentor (2018 – 2024)
- CASIT Pre-Med Summer Scholar Program (2018 – 2024)

HONORS AND AWARDS

- John Baker Award for Outstanding Senior Resident – The Norfolk Surgical Group (1999)
- Sir William Osler Award for Excellence in Teaching – Eastern Virginia Medical School (1999)
- Eunice Baxter Award for Outstanding Patient Care – Norfolk General Hospital (2000)
- Veteran's Administration Award for Outstanding Patient Care – VAMC Marion, Illinois (2000)

- Video Award – "Transatlantic Robot-Assisted Laparoscopic Surgery" – European Association of Endoscopic Surgeons, 10th International Congress, Lisbon, Portugal (2002)
- Technology Award – "Evaluation of a New Technique in 3D Virtual Cholangioscopy" – European Association of Endoscopic Surgeons, 10th International Congress, Lisbon, Portugal (2002)
- Honorable Mention Video Presentation – "Laparoscopic Resection of the Duodenal-Jejunal Junction for Benign Tumors" – Society of Laparoendoscopic Surgeons, 11th International Congress and Endo Expo, New Orleans, Louisiana (2002)
- Honorable Mention Scientific Presentation – "A New Device for Sentinel Node Detection in Laparoscopic Colon Surgery" – Society of Laparoendoscopic Surgeons, 11th International Congress and Endo Expo, New Orleans, Louisiana (2002)
- Best Urology Video Presentation – "Prevention of Ureteral Injury in Difficult Laparoscopic Dissection Via Infrared Ureteral Stents" – Society of Laparoendoscopic Surgeons, 11th International Congress and Endo Expo, New Orleans, Louisiana (2002)
- Best Scientific Presentation – "Robot-Assisted Remote Telesurgery" – Society of Laparoendoscopic Surgeons, 11th International Congress and Endo Expo, New Orleans, Louisiana (2002)
- Best Pediatric Video Presentation – "Robotically Assisted Pediatric Nissen Fundoplication" – Society of Laparoendoscopic Surgeons, 13th International Congress and Endo Expo, New Orleans, Louisiana (2004)
- Featured Instructional Media – "UCLA U-Loop" – Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting Learning Center, Dallas, Texas (2006)
- Best Poster in the Innovation Category – "Automated Visual Analysis to Support Training in Laparoscopic Surgery" – Symposium on the Science of Learning in Medical Education (2010)
- Recipient of the Jefferson Cup – Eastern Virginia Medical School (2011)
- UCLA Golden Scalpel Award – Excellence in Teaching (2011 – 2012)
- UCLA Golden Scalpel Award – Excellence in Teaching (2012 – 2013)

SYMPOSIA ORGANIZATION & COURSE DIRECTORSHIPS

- Advanced Course in Laparoscopic Colorectal Surgery – IRCAD/EITS, Strasbourg, France (2001 – 2002)
- Advanced Course in Laparoscopic Morbid Obesity Surgery – IRCAD/EITS, Strasbourg, France (2002)
- Advanced Course in Laparoscopic Hernia Surgery – IRCAD/EITS, Strasbourg, France (2002)
- UCLA Laparoscopic Liver Resection Course – Course Director (2008)
- UCLA/CASIT Multispecialty Robotic Surgery Symposium – Course Director (2016)

- Nicholson Center Live Webinar – "Bedside Strategies in Robotic Surgery" (2020)
- UCLA Intuitive Robotic Surgical Course – Course Organizer & Instructor (2020)
- UCLA Intuitive Robotic Surgical Course – Course Organizer & Instructor (2021 Spring)
- UCLA Intuitive Robotic Surgical Course – Course Organizer & Instructor (2021 Fall)

PRACTICAL SYMPOSIA IN MEDICAL SIMULATION

- "Incorporating Team Training into a Simulation Curriculum" – International Meeting on Medical Simulation, Orlando, FL (2007)

PRACTICAL SYMPOSIA IN LAPAROSCOPIC SURGERY (Faculty/Participant)

- IRCAD/EITS Advanced Course in Laparoscopic Hernia Surgery (2001 – 2002)
- IRCAD/EITS Advanced Course in Laparoscopic Urologic Surgery (2001 – 2002)
- IRCAD/EITS Laparoscopic Courses for Nurses (2001 – 2002)
- IRCAD/EITS Intensive Course in Laparoscopic Surgery (2001 – 2002)
- IRCAD/EITS Minimally Invasive Endocrine Surgery (2002)
- IRCAD/EITS Advanced Course in Laparoscopic Morbid Obesity Surgery (2002)
- IRCAD/EITS Advanced Course in Laparoscopic Colorectal Surgery (2002)
- IRCAD/EITS Intensive Courses in Laparoscopic Urologic Surgery (2002)
- IRCAD/EITS Advanced Course in Laparoscopic Aorto-iliac Surgery (2002)
- IRCAD/EITS Advanced Courses in Laparoscopic Digestive Surgery (2002)
- American Society for Bariatric Surgery Laparoscopic Bariatric Surgery Cadaver Lab – 5th International Post-Graduate Course (2003)
- Medical Student College of Applied Anatomy Foundations Abdominal Surgery Lab (2004 – 2024)
- UCLA Laparoscopic Colectomy Courses (2007)
- UCLA Laparoscopic Liver Resection Course (2008)

FELLOWSHIP GRANTS

- United States Surgical – MIS Fellowship Support (2005 – 2006) $70,000
- United States Surgical – MIS Fellowship Support (2006 – 2007) $70,000
- United States Surgical – MIS Fellowship Support (2007 – 2008) $70,000
- Ethicon Endosurgery – MIS Fellowship Support (2007 – 2008) $75,000
- Covidien – MIS Fellowship Support (2008 – 2009) $70,000
- Covidien – MIS Fellowship Support (2009 – 2010) $70,000
- Covidien – MIS Fellowship Support (2010 – 2011) $70,000

- Foundation for Surgical Fellowships – MIS Fellowship Support (2011 – 2012) $60,000

RESEARCH GRANTS

- Eastern Virginia Medical School Resident Research Award Title: Functional Assessment of Diabetic Peripheral Neuropathy Coordinator: L. Colen, MD Role: Investigator Amount: $2,000 (1994 – 1995)
- TATRC/USAMRAA, Department of Defense Title: Surgical Augmentation through Haptic Feedback Log No: 04050001 Role: Co-Principal Investigator Amount: $1,152,000 (2005 – 2011)
- TATRC/USAMRAA, Department of Defense Title: Haptic-Guided Telementoring System Log No: 04050001 Role: Co-Principal Investigator Amount: $1,193,000 (2006 – 2010)
- TATRC/USAMRAA, Department of Defense Title: Enhance and develop novel technologies to improve timeliness and quality of care to warfighters and civilian populations Role: Co-Principal Investigator Amount: $144,532 (2007 – 2013)
- National Science Foundation (NSF) Title: Accelerated prosthetic rehabilitation with a pneumatic thin film haptic feedback system Role: Co-Principal Investigator Amount: $240,000 (2008)
- National Science Foundation (NSF) Title: Collaborative Research: Development and Evaluation of Reflective THz Medical Imaging for Skin Burns Role: Co-Principal Investigator Amount: $399,098 (2008)
- Pluromed (NIH subaward) Title: Rapid Transition Polymer for Temporary Vascular Occlusion During Segmental Liver Resection Role: Principal Investigator Amount: $17,975 (2009 – 2010)
- TATRC/USAMRAA, Department of Defense Title: Critical Communication and Control Factors in Telementoring and Telesurgery Role: Co-Principal Investigator Amount: $849,000 (2009 – 2012)
- TATRC/USAMRAA, Department of Defense Title: Transcontinental Demonstration of Laparobot Log No: 04050001 Role: Co-Principal Investigator Amount: $300,000 (2009 – 2012)
- Henry M Jackson Foundation Title: In-Vivo THz Imaging of Acute Burn Wounds Role: Co-Principal Investigator Amount: $407,579 (2010 – 2013)
- National Institutes of Health (NIH) R01 Title: Non-Contact, THz Sensing of Corneal Hydration Role: Co-Principal Investigator Amount: $2,292,549 (2011 – 2014)
- National Institutes of Health (NIH) R21 Title: An evaluation of the benefits of tactile feedback in robotic surgery Role: Principal Investigator Amount: $409,266 (2012 – 2014)

- National Institutes of Health (NIH) R21: NIBIB Title: TeraHertz imaging of acute burn wounds Role: Co-Investigator Amount: $396,772 (2013 – 2015)
- National Institutes of Health (NIH) R01 Title: Haptic Feedback for Robotic Surgery using bi-axial capacitive force sensors Role: Principal Investigator Amount: $332,085 (2014 – 2018)
- Iris Cantor/WHC-CTSI Pilot study, NIH/NCATS UCLA CTSI Title: Brain activity related to hunger and satiation in obese women, and its relation to weight loss after bariatric surgery Role: Co-Investigator Amount: $30,000 (2013 – 2016)
- NIH/NCATS UCLA CTSI Title: Brain responses associated with ingestive behavior in obese patients: the effects of bariatric surgery, and their association with behavioral and satiety signal responses Role: Principal Investigator Amount: $30,000 (2013 – 2017)
- DoD USAMRAA Title: Virtual Tissue Modeling for Realtime Surgical and Interventional Procedure Simulation Role: Co-Investigator Amount: $3,600,000 (2015 – 2018)
- Advanced Life Technologies / DOD (Prime) Title: Additive Manufacturing of Biomimetic Self-Healing Composite Tissues Role: Academic PI (2018 – 2021)
- NIH T32 Gastroenterology Training Grant Title: Development of a Porcine Model of Bariatric Surgery for the Investigation of Neurogastrointestinal Signaling in Obesity, Weight Loss Surgery, and Foregut Motility Role: Mentor (2021 – 2022)

U.S. PATENTS

1. “Novel enhanced haptic feedback processes and products thereby effective for use as balloon-based robotic surgical devices/neuroprosthetics among other things” Filing Date: April 14, 2006 Application Number: US60/791,960
2. “Haptic Feedback Sensor and Method of Making the Same” Filing Date: May 2019 PCT Application No. PCT/US19/34630

INVITED PRESENTATIONS

“Techniques of Splenic Flexure Mobilization.” J. Leroy, E. Dutson, M. Henri, J. Marescaux. Invited presentation, European Association of Endoscopic Surgeons Technology Symposium. Lisbon, Portugal. June 2, 2002.

"Laparoscopic Management of Benign and Malignant Colorectal Disease." E. Dutson. Invited oral presentation, Gastrointestinal Fellows Conference, David Geffen School of Medicine at UCLA. January 16, 2004.

“Minimally Invasive Surgery: Not Fancy Surgery for Only the Young.” E. Dutson, A. Mehran. HealthCare 50+ Lecture Series, UCLA Santa Monica Hospital, Santa Monica, CA. February 2004.

“Robotics in Minimally Invasive Surgery.” E. Dutson. Daniel Freeman Marina Hospital, Marina Del Rey, CA. March 19, 2004.

"Computer-aided teaching: Virtual surgery in the 21st Century." E. Dutson. Invited oral presentation, 5th Belgian Surgical Week, Session of the Belgian Group of Endoscopic Surgery. Oostende, Belgium, May 6-8, 2004.

"Robotics in Minimally Invasive Surgery." E. Dutson. Pre-Health Professionals Club, Santa Monica College, Santa Monica, CA. November 11, 2004.

"Computer-Assisted Surgery and Robotics: What's out there and where are we going?" E. Dutson. UCLA Bioengineering Seminar, May 11, 2005.

Visiting Professor, University of Arkansas Medical Center, Surgery Grand Rounds, "Minimally Invasive Bariatric Surgery." E. Dutson. January 2006.

"From Robotics to Nanotechnology – the Exciting, Brave New World of Medicine." E. Dutson. American Medical Association Organized Medical Staff Section (AMA-OMSS) Assembly Meeting, November 9-12, 2006, Flamingo Las Vegas.

"Minimally Invasive Bariatric Surgery and Type II Diabetes." E. Dutson. 3rd Annual Clinical Diabetes Technology Meeting, April 21-22 2007, San Diego.

"Minimally Invasive Bariatric Surgery." E. Dutson. Guildford Hospital, July 2007, Guildford, UK.

"Obesity Crisis: The American Experience." E. Dutson. Minimal Access Therapy Training Unit (MATTU), University of Surrey, January 22, 2008, Surrey, UK.

"The Cure for Type 2 DM: An operation?" E. Dutson. UCLA Endocrinology Combined Grand Rounds, February 6, 2008.

"UCLA Minimally Invasive Surgery: Laparoscopic Liver Resection." E. Dutson. 13th Annual Primary Care Update, UCLA Health System. April 11-13 2008, Las Vegas.

"From Gastric Bypass to Sleeve Gastrectomy: Developed Procedures and New Perspectives." 9th Meeting on Techniques and Technology ILCAM, Milan, June 18, 2008.

UCLA Fourth Annual State-of-the-Art Imaging and Interventional Forum "Minimally Invasive Resection Techniques for Liver Tumors." November 5, 2010.

UCLA Technology and Aging Conference – moderator, Session on Medical Bionics "Haptic Feedback For Lower-limb Sensory Deficits." October 29, 2010.

What are appropriate glycemic goals in the post-bariatric surgery inpatient? Session I: Glycemic Goals International Hospital Diabetes Meeting Friday, October 8, 2010.

Nutritional Support in Morbidly Obese Diabetic Patients Session II: Tactics for Diabetes Management International Hospital Diabetes Meeting Friday, October 8, 2010.

UCLA Liver Grand Rounds Bariatric Surgery and Liver Transplant September 14, 2010.

4th Annual UCLA Liver Diseases Symposium Surgical Treatment for NASH November 13, 2010.

"Robotic Surgery: How and Why?" Bioengineering Lecture for Dr. Warren Grundfest May 12, 2011.

"Virtual Surgery in the 21st Century" Bioengineering Lecture for Dr. James Dunn May 17, 2011.

Key-Note Address: Design and Assessment in Medical Simulations Design and Using Computer Simulations in Medical Education and Training Conference May 17, 2011.

Visiting Professor, Eastern Virginia Medical School, Surgical Grand Rounds "Perspectives in Surgical Technology, Part 2: Surgery and Virtual Surgery in the 21st Century" June 17, 2011.

"Bariatric Surgery for Primary Management of Type II Diabetes" 2012 International Clinical Diabetes Technology Meeting and EXPO April 21, 2012, Los Angeles, CA.

The First Affiliated Hospital, Zhejiang University "UCLA Center for Advanced Surgical and Interventional Technology (CASIT): Innovation in Surgery & Engineering for the 21st Century" June 30, 2012, Hang Zhou, China.

"Overview: CASIT's Simulation Research for Surgical and Interventional Medicine" CRESST TATRC/ONR Workshop Two August 1, 2012, Los Angeles, CA.

"Simulation – The Next Generation: Automation of FLS – Are We Ready?" SAGES Annual Conference April 19, 2013, Baltimore, MD.

"Bariatric Surgery in the NASH Epidemic" 9th Annual UCLA Liver Diseases Symposium November 7, 2015.

"Is Bile Reflux Gastritis a Real Concern after MGB?" Arab Health Conference January 31, 2018.

"How I do it: Laparoscopic TEP" Arab Health Conference February 1, 2018.

"Obesity, Bariatric Surgery and the Central Nervous System" 3rd International Conference on Obesity and Chronic Diseases July 24, 2018.

"Bariatric Surgery in the NASH Epidemic" 12th Annual UCLA Liver Diseases Symposium October 20, 2018.

"OR Fires" UCLA Combined Surgery/Anesthesia Grand Rounds August 4, 2021.

"The Future of Surgical Training and Coaching: Beyond Traditional Simulation" American Society of Colorectal Surgeons Webinar: The Emergence of Artificial Intelligence in Surgery: Will machine learning lead to the next big disruption in practice and training? August 25, 2022.

ORAL, VIDEO AND POSTER PRESENTATIONS

"Comparison Review of Pediatric Trauma- A 10-year Retrospective Analysis of the Local Experience in Pediatric Trauma Outcomes Compared to National Outcomes." Residents' Day Research Forum, Eastern Virginia Graduate School of Medicine. 1998.

"Local Experience for Re-do Operations Post Laparoscopic Nissen Fundoplication- A review of Reoperations Post Lap Nissen Fundoplication Over 6 yr. Period in Community-Based Practice." Residents' Day Research Forum, Eastern Virginia Graduate School of Medicine. June 12, 1999.

"Perspectives in Surgical Technology- A Chronological Review of Technologic Advancements as They Affected the Art of Surgery From the Neolithic Period Through Modern Minimally-Invasive Computer-Based Integrated Systems." Chief Resident Presentation, Eastern Virginia Graduate School of Medicine. February 18, 2000.

"Li-Fraumeni Syndrome." Invited oral presentation, Surgical Grand Rounds, Beloit Memorial Hospital. Beloit, Wisconsin, February 2001.

"Prevention Of Ureteral Injury In Difficult Laparoscopic Dissection Via Infrared Ureteral Stents." J. Leroy, E. Dutson, D. Mutter, A. Garcia, M. Henri, R. Ceulemans, F. Rubino, M. Arenas, J. Marescaux. Video presentation, European Association of Endoscopic Surgeons, 10th International Congress of the EAES. Lisbon, Portugal. 2002.

"Instruction Of Laparoscopic TAPP Hernia Repair Via Multimedia Approach." J. Leroy, E. Dutson, A. Garcia, M. Henri, R. Ceulemans, F. Rubino, M. Arenas, D. Mutter, J. Marescaux. Oral presentation, European Association of Endoscopic Surgeons, 10th International Congress of the EAES. Lisbon, Portugal. 2002.

"Is The Internet A Viable Method To Obtain Surgical Continuing Medical Education?" E. Dutson, A. Bouabène, E. Chekan, H. Maisonneuve, J. Marescaux. Poster presentation at The Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting. Los Angeles, California, March 2003.

"Keypoints For Nerve Preservation During Laparoscopic Total Mesorectal Excision For T3 Rectal Lesion In A Male Patient." J. Leroy, E. Dutson, F. Rubino, M. Henri, M. Arenas, R. Ceulemans, A. Garcia, J. Marescaux. Video presentation at The Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting. Los Angeles, California, March 2003.

"Minilaparoscopic Right Colon Resection." T. Drasin, C. Gracia, A. Takahashi, E. Dutson. Video presentation, The Society of Laparoendoscopic Surgeons 13th International Congress and Endo Expo. New York, New York, September 29-October 2, 2004.

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"Transition from a Volume Based Open Bariatric Surgery Program to a Structured Laparoscopic One: What Have We Learned?" A. Al Zahrani, T. Drasin, A. Takahashi, D. Frickel, E. Dutson, S. Valencia, C. Gracia, A. Mehran. Poster presentation, The Society of Laparoendoscopic Surgeons 13th International Congress and Endo Expo. New York, New York, September 29-October 2, 2004.

"Haptic Feedback System for Robotic Surgery" E. Dutson, R Hwang, A Douraghy, J Zhang, A Vijayaraghavan, C Gracia, W Grundfest, Poster presentation at The Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting, Emerging Technology Session, Hollywood, Florida, April 2005.

"Acute Gastric Remanat Dilatation after Laparascopix Roux-en-Y Gastric Bypass," S Han,S White, K Patel, E. Dutson, D Vira, D Russell, A Mehran. Poster presentation at The Society of American Gastrointestinal Endoscopic Surgeons Annual Meeting, Dallas, Texas, April 2006

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