

CURRICULUM VITAE

Thay Q Lee, Ph.D.

Senior Research Career Scientist / Biomedical Engineer
Orthopaedic Biomechanics Laboratory (09/151)
Department of Veterans Affairs
VA Long Beach Healthcare System
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Professor in Residence and Vice Chairman for Research
Department of Orthopaedic Surgery, University of California, Irvine
UCI Medical Center, Rt. 81, 101 City Drive South, Orange, California 92868
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Fax: (714) 456-7547
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<http://www.ucihs.uci.edu/ortho/faculty/lee.html>

EDUCATION

University of California San Diego-Revelle College	B.S. Bioengineering
University of California San Diego	M.S. Applied Mechanics
Gothenburg University Gothenburg, Sweden	Ph.D. Biomaterials

PRINCIPAL POSITIONS HELD

Research and Development / Comprehensive Rehabilitation Service VA Long Beach Healthcare System, Long Beach California	
Senior Research Career Scientist	2010 - present
Research Career Scientist	2000 - 2010
Biomedical Engineer	1987 - present
Director of Biomechanics Research	1989 - present
Department of Orthopaedic Surgery University of California, Irvine	
University of California Academic Senate Faculty Director of Joint Biomechanics Research	1989 - present

Professor in Residence Step IV and Vice Chairman for Research	2010 - present
Professor in Residence Step II and Vice Chairman for Research	2007 - 2010
Professor in Residence Step I and Vice Chairman for Research	2004 - 2007
Associate Professor in Residence Step III	2002 – 2004
Associate Professor in Residence Step II	2000 – 2002
Associate Clinical Professor Step II	1999 - 2000
Associate Clinical Professor Step I	1998 - 1999
Associate Clinical Professor - Volunteer Faculty	1996 - 1998
Assistant Clinical Professor - Volunteer Faculty	1991 - 1996
Clinical Instructor – Volunteer Faculty	1987 -1991

Department of Physical Medicine and Rehabilitation
University of California, Irvine

University of California Academic Senate Faculty	
Professor in Residence Step IV	2010 - present
Professor in Residence Step II	2007 - 2010
Professor in Residence Step I	2004 - 2007
Associate Professor in Residence Step III	2002 - 2004
Associate Professor in Residence Step II	2000 - 2002
Associate Clinical Professor Step II	1999 - 2000
Associate Clinical Professor Step I	1998 - 1999

Department of Biomedical Engineering
University of California, Irvine

University of California Academic Senate Faculty	
Professor in Residence Step II	2007 - present
Professor in Residence Step I	2004 - 2007
Associate Professor in Residence Step III	2002 - 2004
Associate Professor in Residence Step II	2000 - 2002

Department of Biomedical Engineering
Inje University, Korea
Advisory Professor

2004-2008

Department of Orthopaedic Surgery
University of Southern California
Research Professor

2004-present

Division of Orthopaedic Surgery and Rehabilitation
VA Medical Center, San Diego, CA
University of California, San Diego
Biomedical Engineer

1983 - 1987

ELECTED MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Orthopaedic Research Society	1986 - present
American Society of Biomechanics	1987 - present
American Society of Mechanical Engineers (ASME)	1988 – present
Society for Biomaterials	1992 - present
Biomedical Engineering Society	1997 - present
California Orthopaedic Association	2000 - present
American Shoulder and Elbow Surgeons	2000 – present
American Institute for Medical and Biologic Engineering	2003 – present
American Orthopaedic Society for Sports Medicine	2009 - present

ELECTED FELLOW IN PROFESSIONAL ORGANIZATIONS

Fellow, American Society of Mechanical Engineers (ASME)	2002 - present
Fellow, American Institute for Medical and Biologic Engineering (AIMBE)	2003 - present

SERVICE TO GOVERNMENT AND CHARITABLE ORGANIZATIONS

The Extremity War Trauma Research (Airlift) Foundation, Pittsburgh, PA	
Member of the Board of Directors	2008 - 2010
Chair of Market Brand Committee	2008
Member of Advocacy Committee	2008 - 2010
Member of Scientific Program Committee	2008
Chair of Scientific Program Committee	2009 - 2010
Member of Scientific Advisory Committee	2009
Chair of Scientific Program Committee	2009 – 2010
Secretary	2009 – 2010
VA Rehabilitation Research Predoctoral Fellowship Program	2007, 2008, 2009
Reviewer	
VA Medical Research Merit Review Career Development Panel	2006 - Present
Member	
VA Rehab R&D Merit Review Subcommittee	2009 - 2010
Committee Member	
VA Medical Research Merit Review Subcommittee	2006 - 2008
Committee Member	
VA Medical Research Merit Review Subcommittee	2004 -2006
Committee Member	

VA Medical Research Career Development Award Reviewer	2004 -2008
National Institutes of Health (NIH) SBSR (Skeletal Biology Structure and Regeneration) Reviewer	2008
NIH Challenge Grant (NIH/CSR) Reviewer	2009
Swiss National Science Foundation Grant Reviewer	2005
Natural Sciences and Engineering Research Council of Canada (NSERC) Grant Reviewer	2002-2003
The Aircast Foundation, Pittsburgh, PA Research Grants Peer Review Committee	2000, 2001, 2003, 2008
Scientific Advisory Board	2004-2007
Orange County Sheriff's Department - Professional Services Professional Reserve	2000 - 2003
Level III Reserve Deputy Sheriff	2003 - present
California Orthopaedic Research Institute (Torrance, CA) Member of the Board of Directors	1991 - present
Orthopaedic Research Laboratories Alumni Council (Pittsburgh, PA) Member of the Board of Directors	1996 - present
Member of the International Fundraising Committee	1997 - 1998
President	1989 - 1995
ASIAM Institute for Research and Education (Pittsburgh, PA) Member of the Board of Directors	1997 - present
American Shoulder and Elbow Surgeons Closed Meeting Committee	2008
Research Committee	2007 – 2010
Research Committee	2002 – 2005
Membership Committee	2002 – 2006
Open Meeting Committee	2004, 2006
Closed Meeting Committee	2004, 2008, 2009 2010

International Symposium on Ligaments and Tendons Program Committee	2005, 2006, 2007
International Advisory Committee	2009-present
Orthopaedic Research Society Reviewer	2005, 2006, 2007 2008
Nominating Committee - Bioenginner	2009 - 2012
American Society of Biomechanics Reviewer	2005, 2007
American Society of Mechanical Engineers (ASME) – Bioengineering Division Reviewer	2006, 2007
American Society of Mechanical Engineers (ASME) – Emerging Technologies Conference Chair 3rd Conference Frontiers in Biomedical Devices, Irvine, CA	2008
American Society of Mechanical Engineers (ASME) – Emerging Technologies Conference Chair 4th Conference Frontiers in Biomedical Devices, Irvine, CA	2009
American Society of Mechanical Engineers (ASME) – Emerging Technologies Conference Chair 5th Conference Frontiers in Biomedical Devices, Newport Beach, CA	2010

COMMITTEE SERVICE – VA Long Beach Healthcare System

Institutional Review Board - Animal Care and Use Committee VA Long Beach Healthcare System, Long Beach, CA Chair	2007 - 2008
Alternate Chair / Member	2004 – 2006
Chair	2000 - 2004
Chair	1998 - 1999
Member	1989 – 1997
Employee Recognition Committee VA Long Beach Healthcare System, Long Beach, CA	1999 - 2001
Research and Development Committee VA Long Beach Healthcare System, Long Beach, CA Member	2002 - 2004
Ex-Officio member	2005 - 2008

Research Space Subcommittee

VA Long Beach Healthcare System, Long Beach, CA
Member 2001 – 2010

Research Budget Subcommittee
VA Long Beach Healthcare System, Long Beach, CA
Member 2002 – 2005
Chair 2005 – 2008

COMMITTEE SERVICE – University of California, Irvine

Academic Senate Executive Committee of University of California
Promotions & Honors (P&H) Committee 2009-2012

Academic Senate Executive Committee of University of California
Mentor Committee 2009-2012

Academic Senate of University of California
College of Medicine Representative Assembly
Elected Member 2004-2006

Department of Orthopaedic Surgery, University of California, Irvine
Research Committee
Chair 1998 – present
Education Committee
Member 2000 - present

Department of Biomedical Engineering
Graduate Education Committee
Member 2005 – present

Committee for Undergraduate Curriculum
Member 2000 – present

SERVICE TO SCHOLARLY JOURNAL AND PUBLICATIONS

Guest Editor July 2002
Clinical Orthopaedics and Related Research
Symposium
“Recent Basic Science and Clinical Advances in Anterior Glenohumeral Instability”

Special Issue Editor 2005
J. Shoulder and Elbow Surgery
“Current Basic Science on Shoulder and Elbow Surgery”

Editor
Surgery of the Shoulder and Elbow An International Perspective
American Academy of Orthopaedic Surgeons.

ISBN/ISSN: 9780892033614

Editors: Tom R. Norris, MD, Joseph D. Zuckerman, MD, Jon J.P. Warner, MD,
and Thay Q. Lee, PhD

International Editor 2004 - present
Journal of Korean Orthopaedic Association

Basic Science Editor 2008
Orthopaedic Knowledge Update – 3rd Edition - Basic Science
American Academy of Orthopaedic Surgeons, March 2008
ISBN/ISSN: 9780892034093
Editor: Leeza Galatz, MD
Basic Science Editor: Thay Q Lee, PhD

Editorial Board
The Open Sports Medicine Journal (ISSN 1874-3870) 2008 - present
Journal of Long Term Effects of Medical Implants 2010 - present

Assitant Editor 2009 - present
J. Shoulder and Elbow Surgery

Reviewer

American Journal of Sports Medicine	1996 - Present
Annals of Biomedical Engineering	1999 - Present
Journal of Biomechanical Engineering	1999 - Present
Journal of Shoulder and Elbow Surgery	1999 – Present
Journal of Biomechanics	2002 - Present
Medical Engineering and Physics	2002 - Present
Journal of Orthopaedic Research	2002 - Present
Journal of Applied Biomechanics	2004 - Present
Clinical Orthopaedics and Related Research	2004 - Present
Bone	2004 - Present
Journal of Arthroscopy	2005 - Present
Journal Biomedical Optics	2005 - Present
Musculoskeletal Disorders	2005 – Present
Journal of Bone and Joint Surgery	2008 - Present
Journal of Applied Physiology	2008 – Present

HONORS AND AWARDS

Outstanding Performance Award / Special Contribution Award Biomedical Engineer, Comprehensive Rehabilitation Service Department of Veterans Affairs VA Long Beach Healthcare System, Long Beach, CA (performance award abolished in 2003)	1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003
Special Contribution Award	2009
Visiting Professor Department of Orthopaedic Surgery University of Pittsburgh, School of Medicine J. Albert Ferguson, Jr. Inaugural Symposium	1993
Olin E. Teague Award - Outstanding Achievement Award Department of Veterans Affairs, Washington DC – Nominated	1997
Visiting Professor Department of Biomaterials/Handicap Research Institute for Surgical Sciences, Gothenburg University Gothenburg, Sweden,	1997
Neer Award Finalist - American Shoulder and Elbow Surgeons, Senior Author	1997, 2000, 2001, 2002, 2003, 2004 2005, 2006, 2008 2009
Federal Executive Board Distinguished Public Service Award (Category V - Scientific and Technical)– Nominated	1998
ASPA, Harry Scoville Award Department of Veterans Affairs, Washington DC – Nominated	1998
Visiting Professor Department of Orthopaedic Surgery, University of Pittsburgh, School of Medicine Pittsburgh, Pennsylvania	1998
Visiting Professor Department of Orthopaedic Surgery Ajou University, Suwon, Korea	1998

Vernon P. Thomson Award Western Orthopaedic Association – Senior Author	1999
Basic Science Faculty Teaching Award Department of Orthopaedic Surgery, University of California, Irvine	2000, 2004, 2005, 2007
Research Career Scientist Award VA Rehab Research and Development Department of Veterans Affairs	2000 -2005
Visiting Professor Department of Orthopaedic Surgery, Yonsei University Seoul, Korea	2001
Fellow American Society of Mechanical Engineers	2002
Fellow American Institute for Medical and Biological Engineering	2003
J. Albert Ferguson, Jr. Distinguished Visiting Research Professor Musculoskeletal Research Center, Department of Orthopaedic Surgery University of Pittsburgh Pittsburgh, Pennsylvania	2003
Visiting Professor Department of Orthopaedic Surgery, University of Connecticut Farmington, Connecticut	2003
Keynote Speaker Kanagawa Hand & Elbow Meeting Yokohama, Japan	2004
Keynote Speaker The 47th Annual Meeting of the Japanese Society for Surgery of the Hand Osaka, Japan	2004
Visiting Professor Department of Biomedical Engineering, Inje University Busan, Korea	2004
Visiting Professor Department of Orthopaedic Surgery, Ajou University Suwon, Korea	2004

Visiting Professor Department of Orthopaedic Surgery, Toyama University Toyama, Japan	2005
Invited Speaker International Society for Technology in Arthroplasty Kyoto, Japan	2005
Visiting Professor Department of Orthopaedic Surgery, Teikyo University Tokyo, Japan	2005
Research Career Scientist Award VA Rehab Research and Development Department of Veterans Affairs	2005 -2010
Visiting Professor Department of Biomedical Engineering, Inje University Department of Orthopaedic Surgery, Inje University Busan, Korea	2005
The Neer Award – Basic Science American Shoulder and Elbow Surgeons Senior Author	2006
Special Achievement Award, SAA Research Healthcare Group VA Long Beach Healthcare System	2007
JOA Congress 2008 Travel Award Japanese Orthopaedic Association Senior Author	2008
Keynote Speaker International Symposium on Ligaments and Tendons Las Vegas, NV	2009
Visiting Professor Department of Orthopaedic Surgery, University of Utah Salt Lake City, Utah	2009
Harold and Nancy Willingham Award for Outstanding Research Paper Western Orthopaedic Association – Senior Author	2009

PRIMARY ADVISOR ON AWARDS

Whittaker Biomedical Engineering Fellowship Awards

Tak Cheung, UCI College of Medicine	1999
Garrett Morris, UCI College of Medicine	2001
Amirsham Ehsan, UCI College of Medicine	2002
Jeremy Gilliland, UCI College of Medicine	2004

Dean's Summer Research Stipend Award

Jason Lee, UCI College of Medicine	2006
Joey Pirolo, UCI College of Medicine	2007
Sanjum Samagh, UCI College of Medicine	2007
Christopher Bui, UCI College of Medicine	2009

UCI Department of Orthopaedic Surgery Resident Research Awards

Don Pang, MD	1990
Mark Halikis, MD	1993
Todd Schrader, MD	1995
Michele M. Schulz, MD	1998
Francis E. Glaser, MD	1999
Vance Eberly, MD	2000
Rick Csintalan	2001
Laura Sciaroni, MD	2002
Mark Schamblin, MD	2003
Stefan Fornalski, MD	2005
Brington Phipps, MD	2006
Robert Grumet, MD	2008
Jeffery Gates, MD	2009

USC Department of Orthopaedic Surgery Basic Science Research Award

Michael Vercillo, MD	2007
John Lee, MD	2008
Daniel Stephenson, MD	2009

Rancho Los Amigos Hospital Research Award

Andrew Gerkin, MD	1994
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UCI Undergraduate Excellence in Research Award

Todd Shapiro	1994
Kathy Hicks	1996
Shannon Lee	1996

Depuy Resident Research Award – California Orthopaedic Association

David Lewis, MD	1995
Stephen Chow, MD	2000

Vernon P. Thomson Award - Western Orthopaedic Association	
Francis E. Glaser, MD	1999
Best Paper Presentation Award - Southern California Conference on Biomechanics	
Robert Allaire	2000
Kerlan-Jobe Orthopaedic Clinic Research Award	
Todd A. Shrader, MD	1996
Christopher Ahmad, MD	2001
Frank Alberta, MD	2003
Maxwell C. Park, MD	2005
David Magit, MD	2007
Adam Farber, MD	2008
Whitaker Biomedical Engineering Post Doctoral Fellowship Award	
Teruhisa Mihata, MD	2003
Finalist, Orthopaedic Research Society Young Investigator Award	
Teruhisa Mihata, MD	2004
OREF Resident Award – California Orthopaedic Association	
Gareth Hammond, MD	2005
Robert Grumet, MD	2007
Lloyd Taylor Resident Award – California Orthopaedic Association	
Kenneth Wilkens, MD	2005
Takagishi Award, Japanese Shoulder and Elbow Surgeons Society	
Teruhisa Mihata, MD	2005
Orthopaedic Research Laboratories Alumni Council – Mrs. Ho Tung Cheong Grant Award	
Pooya Hosseinzadeh, MD	2005
Smith & Nephew Fellowship Award	
Maxwell C. Park, MD	2006
Fellowship Award – Arthroscopy Association of North America (AANA)	
Maxwell C. Park, MD	2006
Harold and Nancy Willingham Award for Outstanding Research Paper	
Western Orthopaedic Association	
George Wahba, MD	2009
SCIRE Research Award – Southern California Institute for Research and Education (SCIRE)	
Bong Jae Jun, PhD	2009

UNIVERSITY SERVICE

Teaching

Orthopaedic Biomechanics Orthopaedic Residency Training Program Department of Orthopaedic Surgery University of California, Irvine	1987 - present
Mechanical Engineering 198 Introduction to Orthopaedic Biomechanics Department of Biomedical Engineering University of California, Irvine	2000
Bio Science 199 Undergraduate Research Department of Biological Sciences University of California, Irvine	1991 - present
Biomechanics in Rehabilitation PM&R Residency Training Program Department of Physical Medicine and Rehabilitation University of California, Irvine	1995 - present
Biomedical Engineering 296, 297, 299 Graduate Research Department of Biomedical Engineering University of California, Irvine	2003 - present
Biomedical Engineering 199 Undergraduate Research Department of Biomedical Engineering University of California, Irvine	2004 - present

Biomechanics Research Advising

Orthopaedic Residents - University of California, Irvine

Don Pang, MD	1988 - 1990	*Senior Research Award -	1990
Tom Dunn, MD	1991		
Mark Halikis, MD	1990 - 1993	*Senior Research Award -	1993
Blake Nonweiler, MD	1991		
Andrew Gerkin, MD	1992 - 1995		
*Rancho Los Amigos Hospital Research Award -	1994		
David Lewis, MD	1992 - 1995		
*Depuy Resident Research Award -	1995		

Todd Schrader, MD	1992 - 1995	*Senior Research Award -	1995
Dave Bell, MD	1993 - 1996		
Jeff Budoff, MD	1994 - 1996		
Robert Fogolin, MD	1995 - 1997		
Michele M. Schulz, MD	1995 - 1998	*Senior Research Award -	1998
James Lilley, MD	1995 - 1998		
James Dettling, MD	1996 - 1998		
Francis E. Glaser, MD	1996 - 1999	*Senior Research Award -	1999
*Vernon P. Thomson Award - Western Orthopaedic Association			1999
William M. Weiser, MD	1997 - 1999		
Vance Eberly, MD	1997 - 2000	*Senior Research Award -	2000
Steven L. Barnett, MD	1997 - 2000		
Scott Graham, MD	1998 - 2000		
Derek Dee, MD	1998 - 2001		
Chris Yeung, MD	1998 - 2001		
Rick Csintalan	1998 - 2001	*Senior Research Award -	2001
Stephen Chow, MD	1999 - 2001		
*Depuy Resident Award - California Orthopaedic Association			2000
Laura Sciaroni, MD	1999 - 2002	*Senior Research Award -	2002
J. Rob Faux, MD	1999 - 2002		
Patricia W. McHale, MD	2000 - 2002		
Jennifer Bissell, MD	2000 - 2003		
Kevin Murphy, MD	2000 - 2003		
Mark Schamblin, MD	2001 - 2003	*Senior Research Award -	2003
Todd A. Shapiro, MD	2002 - 2004		
Stefan Fornalski, MD	2002 - 2005		
Jack Yu, MD	2003 - 2005		
Brandon Bryant, MD	2004 - 2006		
Gareth Hammond, MD	2003 - 2006		
*OREF Resident Award - California Orthopaedic Association			2005
Brinceton Phipps, MD	2003 - 2007	*Senior Research Award -	2006
Kenneth Wilkens, MD	2004 - 2007		
*Lloyd Taylor Resident Award - California Orthopaedic Association			2005
Kenneth Seiber, MD	2005-2007		
Kier Ecklund, MD	2005-2007		
Matthew Diltz, MD	2005 - 2008		
Robert Grumet, MD	2005 - 2008	*Senior Research Award -	2008
J Hunt Udall, MD	2006 - 2008		
Keri Reese, MD	2006 - 2008		
Jeff Gates, MD	2006 - 2009	*Senior Research Award -	2009
Jason Hofer, MD	2007 - present		
Mario Luna, MD	2007 - present		
George Wahba, MD	2008 - present		
Amy Steinhoff, MD	2008 - present		
Michael L. Ngyuen, MD	2009 - present		
Grant Robicheaux, MD	2009 - present		

Steven J. Schroder, MD 2010 – present

Orthopaedic Residents - University of Southern California

Mike Vercillo, MD	2007	USC Basic Science Research Award
John Lee, MD	2008	USC Basic Science Research Award
Brian Snow, MD	2009	
Daniel Stephensen, MD	2009	USC Basic Science Research Award

Medical Students - University of California, Irvine

Carol Kimble	1988	
Steve Ballanger	1988	
Andy Gerkin	1989	
Ramin Modabber	1990	Externship from Thomas Jefferson University
Rochelle Dizio	1989 - 1991	
Andy Ishak	1992	Externship from Tufts University
Bob Gazmarian	1991 - 1993	
Mike Sullivan	1992	
Steve Parazin	1992 - 1993	
Francis Glaser	1992 - 1994	
Kirk Kaiser	1993	Externship from University of Nevada
Steve Barnett	1994	Externship from Boston University
Thomas Peatman	1995	
Patrick Yoon	1996	
Robert Chan	1996 - 1997	
Douglas Ching	1997	
Hillary Green	1997 -	Externship from Albert Einstein COM, Bronx, NY
Todd A. Shapiro	1998 –	Externship from Chicago Med
Stefan Fornalski	1998 - 2000	
Tak Cheung	1999 – 2002	
Elly S. LaRoque	2000 – 2001	
Christopher Ngyuen	2000 – 2001	
Steve Shin	2001 –	Externship from Chicago Med
Garrett Morris	2001 – 2002	
Amirsham Ehsan	2002– 2005	
Steven Lin	2002– 2003	
Ryan Patterson	2004 - 2005	
Jeremy Gilliland	2004 - 2007	
Dan Acevedo	2006	
Allyson Estess	2007	
Dan Hoopes	2005 - 2008	
Jason Lee	2006 - 2009	
Kyung Min	2006 - 2009	
Sanjum P. Samagh	2007 - present	
Joseph M. Pirolo	2007 - present	

Karimdad A.Otarodifard	2007 - 2009
Spencer George	2008 - 2009
Samuel E. Galle	2008-present
Pooya Javidan	2008-present
Akash Gupta	2009-present (USC)
Justin Tilan	2009-present
Christopher Bui	2009-present
Ryan Quigley	2009-present
Asheen Rama	2010 – present
Brandon S. Sievers	2010 – present

Undergraduate Students

Steve Barnett	1987 - 1991	UC Berkeley
Daniel Bass	1989 - 1992	CSU Long Beach
Jennifer Ward	1991	CSU Long Beach
Guisou Mahmoud	1991 - 1994	UC Irvine
Bettina Chan	1992	UC Irvine
Andy Dang	1992 - 1994	UC Riverside
Todd Shapiro	1992 - 1994	UC Irvine
*Undergraduate Excellence in Research Award	1994	
Rasheed Simjee	1992 - 1993	UC Irvine
William Chang	1993 - 1995	UC Irvine
Jason Fu	1993 - 1994	UC Irvine
Richard Kim	1994 - 1995	UC Irvine
Kathy Hicks	1995 - 1996	UC Irvine
*Undergraduate Excellence in Research Award	1996	
Shannon Lee	1995 - 1996	UC Irvine
*Undergraduate Excellence in Research Award	1996	
Steve Shin	1996	UC Berkeley
Roland Lue	1996	UC Berkeley
Naissan Wesley	1997	UC Los Angeles
Paul Icinoff	1997	USC
Stanly Koh	1996 - 1998	UC Berkeley
Arshya Ardeli	1998 - 1999	UC Irvine
Kristen Stearns	1999 - 2000	UC Irvine
Robert Allaire	1999 - 2000	UC Irvine
*Best Paper Presentation Award		
Southern California Conference on Biomechanics	2000	
Steve Han	2001	CSU Long Beach
Erin Bingenheimer	2001	UC Riverside
Josh Saul	2001	Northwestern University
Long Duong	2002	UC Irvine
Andrew Lee	2004	Johns Hopkins University
Jennifer Sharp	2004	CSU Long Beach
Carrie Gowen	2006	UC Irvine

Matthew S. Kornswiet	2006 – present U. of Miami
Gabriel P. Palmer	2007 - present U. Utah
Kenneth Lee	2007-2008
Christopher Bui	2007-2008
James Hwang	2008-2009

Graduate Students

PhD Students

Bong Jae Jun (Biomedical Engineering) Primary Advisor	2003 - 2009	UC Irvine
Yu-Jen Chen (Biokinisiology) Dissertation Committee	2003 - 2008	USC
Laura Rummler (Biomedical Engineering) Dissertation Committee	2009	UC Irvine
Ryan Quigley (Biomedical Engineering) Primary Advisor	2009 - present	UC Irvine

MS Students

Long Duong (Biomedical Engineering)	2003 - 2004	UC Irvine
Matthew Kornswiet (Biomedical Engineering)	2008 - 2009	UC Irvine

Post Doctoral Fellows

Christopher M. Powers, PhD, PT	1995
Yeon Soo Lee, Ph.D.	2002-2004
YuJen (Sam) Chen, PhD, PT	2008-2009
Bong Jae Jun, PhD	2009-2010

Research Fellows

Yi-Peng Wang, MD Beijing University, China	1991-1994
Todd A. Shrader, MD Kerlan-Jobe Orthopaedic Clinic	1995-1996
Arthur Black, MD Kerlan-Jobe Orthopaedic Clinic	1996-1997
Mark Reist, MD Kerlan-Jobe Orthopaedic Clinic	1996-1997
Mark Selecky, MD	

Kerlan-Jobe Orthopaedic Clinic	1997-1998
Ali Utkan, MD, Turkey	1998-1999
James Dettling, MD	
Kerlan-Jobe Orthopaedic Clinic	1998-1999
Steve Bast, MD	
Kerlan-Jobe Orthopaedic Clinic	1999-2000
Omar Ahmed, MBBS	2000-2001
Raffy Mirzyan, MD	
Kerlan-Jobe Orthopaedic Clinic	2000-2001
Rick Ravelin, MD	
Kerlan-Jobe Orthopaedic Clinic	2000-2001
Lenoard Remia, MD	
Kerlan-Jobe Orthopaedic Clinic	2000-2001
Christopher Ahmad, MD	
Kerlan-Jobe Orthopaedic Clinic	2000-2001
David Schneider, MD	
Mark Grossman, MD	
Kerlan-Jobe Orthopaedic Clinic	2001-2002
Teruhisa Mihata, MD	
Osaka Medical College, Japan	2002-2004
Vahe Pannosian, MD	
University of Southern California	2002-2003
Mike Fitzpatrick, MD	
University of Southern California	2002-2003
Jess Alcid, MD	
Kerlan-Jobe Orthopaedic Clinic	2002-2003
Frank Alberta, MD	
Kerlan-Jobe Orthopaedic Clinic	2002-2003
Paul Sethi, MD	
Kerlan-Jobe Orthopaedic Clinic	2002-2003
Russell Huffman, MD	
University of Southern California	2003-2004
Brian Shafer, MD	
University of Southern California	2003-2004
David Kim, MD	
Kerlan-Jobe Orthopaedic Clinic	2003-2004
Jason Snibbe, MD	
Kerlan-Jobe Orthopaedic Clinic	2003-2004
Maxwell Park, MD	
Kerlan-Jobe Orthopaedic Clinic	2004-2005
Tom Youm, MD	
Kerlan-Jobe Orthopaedic Clinic	2004-2005
Todd A. Shapiro, MD	
University of Southern California	2004-2005
Nobuyuki Takenaka, MD, PhD	
Teikyo University, Japan	2004

Pooya Hosseinzadeh, MD	2004- 2006
University of Isfahan, Tehran, Iran	
Kevin E. Peltier, MD	2005-2006
University of Southern California	
Matthew Hansen, MD	2005-2006
Kerlan-Jobe Orthopaedic Clinic	
Matthew Siskowsky, MD	2005-2006
Kerlan-Jobe Orthopaedic Clinic	
Jeremy Idjadi, MD	2005-2006
Kerlan-Jobe Orthopaedic Clinic	
Patrick Dawson, MD	2005-2006
Congress Medical Foundation Fellow	
David Magit, MD	2006-2007
Kerlan-Jobe Orthopaedic Clinic	
Ben Busfield, MD	2006-2007
Kerlan-Jobe Orthopaedic Clinic	
Jeff Sodl, MD	2006-2007
University of Southern California	
Gareth Hammond, MD	2006-2007
University of Southern California	
Mike Michlitsch, MD	2006-2007
Congress Medical Foundation Fellow	
Charlie Preston, MD	2007-2008
University of Southern California	
Michael Vercillo, MD	2007-2008
Kerlan-Jobe Orthopaedic Clinic	
Greg Lee, MD	2007-2008
Kerlan-Jobe Orthopaedic Clinic	
Christopher Uggen, MD	2007-2008
Kerlan-Jobe Orthopaedic Clinic	
Anthony Wei, MD	2007-2008
Kerlan-Jobe Orthopaedic Clinic	
Adam Farber, MD	2007-2008
Kerlan-Jobe Orthopaedic Clinic	
Kevin Kaplan, MD	2008-2009
Kerlan-Jobe Orthopaedic Clinic	
Tony Lin, MD	2008-2009
Kerlan-Jobe Orthopaedic Clinic	
Rocco Bassora, MD	2007-2008
University of Southern California	
Oscar Vazquez, MD	2007-2008
University of Southern California	
Kyung Chil Chung, MD	2008-2010
Inje University, Korea	
Joo Han Oh, MD, PhD	2008-2010
Seoul National University, Korea	

Hideya Ishigooka, MD, PhD	2009-2010
Jae Chul Yoo, MD	
Sungkyunkwan University, Korea	2010 – present
Sang-Jin Shin, MD, PhD	
Ewha Womans University Mokdong Hospital	2010 – present

FACULTY MENTORING

Career Development Award (Primary Mentor) - Department of Veterans Affairs Rehab R&D
Jay Calvert, MD 2004 – 2007
Staff Surgeon – VA Long Beach Healthcare System

American Shoulder and Elbow Surgeons Society Research Grant
Orr Limpisvasti, MD 2004 - 2005

Aircast Foundation
Ranjan Gupta, MD 2003 - 2004
Assistant Professor – Dept of Orthopaedic Surgery, University of California, Irvine

Career Development Award (Primary Mentor) - Department of Veterans Affairs Rehab R&D
Michelle M. Schulz, MD 2002 – 2005 (Awarded but declined)
Staff Surgeon – VA Long Beach Healthcare System
Assistant Clinical Professor – Department of Orthopaedic Surgery, UC Irvine

VISITING PROFESSOR LECTURES

Department of Orthopaedic Surgery University of Pittsburgh, School of Medicine J. Albert
Ferguson, Jr. Inaugural Symposium, April 28, 1993
Lecture: Biomechanics of Patellofemoral Joint Disorders

Department of Biomaterials/Handicap Research Institute for Surgical Sciences, Gothenburg
University Gothenburg, Sweden, January 16, 1997
Lecture: Biomechanics of Patellofemoral Joint and Glenohumeral Joint

Department of Orthopaedic Surgery University of Pittsburgh, School of Medicine, April 1998
Lecture: Biomechanics of the Patellofemoral Joint

Department of Orthopaedic Surgery, Ajou University, Suwon, Korea, August 1998
Lecture: Biomechanics of the Patellofemoral Joint

Department of Orthopaedic Surgery, Yonsei University, Seoul, Korea, April 2001
Lecture: Current Advances in Patellofemoral Joint Biomechanics Research

Musculoskeletal Research Center, Department of Orthopaedic Surgery University of Pittsburgh,
J. Albert Ferguson, Jr. Distinguished Visiting Research Professor, October 20-24, 2003
Lecture: Shoulder Biomechanics: Importance of Laboratory Research

Department of Orthopaedic Surgery, University of Connecticut
Farmington Connecticut, November 13-14, 2003
Lecture: Shoulder Biomechanics Research

Department of Biomedical Engineering, Inje University
Busan, Korea, November 11-12, 2004
Lecture: Shoulder Biomechanics

Visiting Professor
Department of Orthopaedic Surgery, Ajou University
Suwon, Korea, November 12-13, 2004
Lecture: Glenohumeral Instability and Repair

Visiting Professor
Department of Orthopaedic Surgery, Toyama University
Toyama, Japan, September 28, 2005
Lecture: Biomechanics of Total Knee Arthroplasty

Visiting Professor
Department of Orthopaedic Surgery, Teikyo University
Tokyo, Japan, October 3, 2005
Lecture: Working Towards Better Understanding of Glenohumeral Joint Instability

Visiting Professor
Department of Orthopaedic Surgery, Inje University, Busan, Korea. December 8, 2005
Lecture: Biomechanics of Glenohumeral Instability
Department of Biomedical Engineering, Inje University, Busan, Korea, December 9, 2005
Lecture: Biomechanics of the Patellofemoral Joint and Total Knee Arthroplasty

Department of Orthopaedic Surgery, University of Utah
Salt Lake City, Utah, March 27, 2009
Lecture: Shoulder Biomechanics Research

CONFERENCE CHAIRMAN

Long Beach Orthopaedic Bioengineering Symposium
Conference Chair
Advances in Orthopaedic Bioengineering Research. Long Beach, CA, November 1995

Department of Orthopaedic Surgery Twenty-First Graduate Research Forum
Conference Chair

College of Medicine, University of California, Irvine, Orange, CA, May 1999

Department of Orthopaedic Surgery Twenty-Second Graduate Research Forum
Conference Chair

College of Medicine, University of California, Irvine, Orange, CA, June 2000

Department of Orthopaedic Surgery Twenty-Second Graduate Research Forum
Conference Chair

College of Medicine, University of California, Irvine, Orange, CA, June 2001

Department of Orthopaedic Surgery Twenty-Fourth Graduate Research Forum
Conference Chair

College of Medicine, University of California, Irvine, Orange, CA, May 2002

Current Basic Science in Shoulder and Elbow

Conference Chair

American Shoulder and Elbow Surgeons, Dana Point, CA, October 2003

Department of Orthopaedic Surgery Twenty-Sixth Graduate Research Forum
Conference Chair

College of Medicine, University of California, Irvine, Orange, CA, May 2004

Department of Orthopaedic Surgery Twenty-Sixth Graduate Research Forum
Conference Chair

College of Medicine, University of California, Irvine, Orange, CA, June 2005

American Society of Mechanical Engineers (ASME) – Emerging Technologies
Conference Chair

3rd Conference Frontiers in Biomedical Devices, Irvine, CA, June 2008

The UC Irvine Shoulder Symposium

Conference Chair

The Resort at Pelican Hill, Newport Beach, CA, May 2009

American Society of Mechanical Engineers (ASME) – Emerging Technologies
Conference Chair

4th Conference Frontiers in Biomedical Devices, Irvine, CA, June 2009

INVITED SESSION CHAIR

1991 Annual Fall Meeting of the Bio-Medical Engineering Society (BMES), 1991
Biomechanics of Ligaments: Session Chairs (Lee TQ, Woo SL-Y)

1991 Annual Fall Meeting of the Bio-Medical Engineering Society (BMES), 1991
Total Joint Arthroplasty: Session Chairs (Lee TQ, Kim WC)

1993 Annual Fall Meeting of the Bio-Medical Engineering Society (BMES), 1993
Clinical and Experimental Aspects of Orthopaedic Biomechanics Research.
Session Chair (Lee TQ)

Department of Orthopaedic Surgery Twenty-First Graduate Research Forum
College of Medicine, University of California, Irvine, Orange, CA, May 1999
Sports Medicine, Session Chair (Lee TQ)

Pre-American Society of Biomechanics (ASB) – ORLAC Symposium,
University of Pittsburgh, 1999
Joint Biomechanics, Session II Chair (Lee TQ)

American Society of Biomechanics (ASB), 1999
Orthopaedics, Session Chair (Lee TQ)
Department of Orthopaedic Surgery Twenty-Second Graduate Research Forum
College of Medicine, University of California, Irvine, Orange, CA, June 2000
Sports Medicine, Session Chair (Lee TQ)

Department of Orthopaedic Surgery Twenty-Third Graduate Research Forum
College of Medicine, University of California, Irvine, Orange, CA, June 2001
Sports Medicine, Session Chair (Lee TQ)

Department of Orthopaedic Surgery Twenty-Fourth Graduate Research Forum
College of Medicine, University of California, Irvine, Orange, CA, May 2002
Sports Medicine, Session Chair (Lee TQ)

American Shoulder and Elbow Surgeons – Closed Meeting
Dana Point, CA, October 2003
Glenohumeral Instability, Session Chair (Lee TQ)

Current Basic Science in Shoulder and Elbow
American Shoulder and Elbow Surgeons, Dana Point, CA, October 2003
Joint Arthroplasty, Session Chair (Lee TQ, Iannotti JP)

International Congress on Surgery of the Shoulder
Washington DC, May 2004
Basic Science and Biomechanics, Session Chair (Lee TQ)

American Shoulder and Elbow Surgeons – Closed Meeting
New York, NY, October 2004
Poster Session, Session Chair (Lee TQ, Green A)

International Symposium on Ligaments and Tendons
Washington DC, February 2005
Gender Related Issues and Knee Kinematics, Session Chair (Lee TQ)

International Society for Technology in Arthroplasty
Kyoto, Japan, September 29 – October 2, 2005
Gender Related Issues and Knee Kinematics, Session Chair (Lee TQ)
Basic Research for Arthroplasty, Session Chairs (Lee TQ, Torisu T)

American Shoulder and Elbow Surgeons – Closed Meeting
Palm Beach FL, October 2005
Rotator Cuff, Session Chair (Gartzman G, Lee TQ)

International Symposium on Ligaments and Tendons
Chicago IL, March 2006
Shoulder, Session Chair (Lee TQ)

Orthopaedic Research Society
Chicago IL, March 2006
Knee, Session Chair (Lee TQ)

American Shoulder and Elbow Surgeons – Closed Meeting
Chicago IL, September 2006
Research Issues, Session Chair (Lee TQ)

Orthopaedic Research Society
San Diego, CA, February 2007
Upper Extremity, Session Chair (Lee TQ)

American Shoulder and Elbow Surgeons – Specialty Day Open Meeting
San Diego, CA, February 2007
Basic Science, Session Chair (Lee TQ)

2007 Annual Fall Meeting of the Bio-Medical Engineering Society (BMES), 2007
Orthopaedics and Rehabilitation Engineering
Session Chair (Lee TQ)

International Symposium on Ligaments and Tendons
Stanford, CA February 2008
Upper Extremity, Session Chair (Lee TQ)

Orthopaedic Research Society
San Francisco, CA, March 2008
Foot and Ankle, Session Chair (Lee TQ)

American Society of Mechanical Engineers (ASME) – Emerging Technologies
Orthopaedic Session Chair (Lee TQ)
3rd Conference Frontiers in Biomedical Devices, Irvine, CA, June 2008

The UC Irvine Shoulder Symposium
Faculty Session Chair (Lee TQ)
The Resort at Pelican Hill, Newport Beach, CA, May 2009

American Shoulder and Elbow Surgeons – Closed Meeting
New York, NY, October 2009
Basic Science, Session Chair (Lee TQ)

INVITED LECTURES

Interface Options in Total Knee Arthroplasty

Dana Point, California, August 23-24, 1991

Lecture: Cause and Effect of the Changes in Patellofemoral Contact Pressures

Thirteenth Southern Biomedical Engineering Conference

University District of Columbia, Washington DC, April 16-17, 1994

Lecture: Nondestructive Biomechanical Assessment of Intact and Reconstructed Hips

Discovery Science Center Launch Pad, Santa Ana, California, March 19, 1997

Lecture: Medicine and Research of Human Motion

Third World Congress of Biomechanics, Hokkaido University, Sapporo, Japan, August 2-8, 1998

Lecture: Biomechanics of Glenohumeral Instability

ORLAC Symposium Kyoto University, Japan, August 1998

Lecture: Biomechanics of the Patellofemoral Joint

Department of Orthopaedic Surgery, Ajou University, Suwon, Korea, August 1998

Lecture: Biomechanics of the Patellofemoral Joint

Korea Institute for Science and Technology (KIST), Seoul, Korea, August 1998

Lecture: Biomechanics of the Patellofemoral Joint

1998 Annual Meeting of the Bio-Medical Engineering Society (BMES)

Case Western Reserve University, Cleveland, Ohio, October 10-13, 1998

Lecture: Biomechanics of the Patellofemoral Joint

Department of Physical Therapy

Chapman University, Orange, California, April 5, 1999

Lecture: Biomechanics of Ligaments

Guest Lecturer

Long Beach VA Medical Center Research Day

Long Beach, California, April 8, 1999

Lecture: Biomechanics of Patellofemoral Joint

Trauma & Emergency Medicine Conference

St. Francis Medical Center, Los Angeles, California, July 17, 1999

Lecture: Orthopaedic Complications and Trauma – Including Joint Dislocations

CME Program

Downey Community Hospital, Los Angeles, California, September 28, 1999

Lecture: Sports Medicine – Orthopaedic Injuries

1999 American Society of Biomechanics (ASB)
Pittsburgh, Pennsylvania, October 20-23, 1999
Lecture: Effects of Vastus Medialis Strength Variation on the Patellofemoral Joint Biomechanics

Medical Education Program
Centinela Hospital Medical Center, Los Angeles, California, November 17, 1999
Lecture: Total Joint Replacement

Bioengineering Symposium
Beckman Laser Institute, University of California, Irvine, February 10, 2000
Lecture: Total Knee Arthroplasty and the Patellofemoral Joint

National Institute of Forensic Studies
Los Angeles, California, April 13, 2000
Lecture: Biomechanics of Injury

Comprehensive Rehabilitation Service
VA Long Beach Healthcare System, Long Beach, California, May 23, 2000
Lecture: Biomechanics Research in Rehabilitation

Resident Lecture
University of Hawaii Integrated Orthopaedic Residency Training Program
John A. Burns School of Medicine, September 19, 2000
Lecture: Current Concepts on Shoulder Biomechanics

Grand Rounds Lecture
University of Hawaii, Division of Orthopaedic Surgery
John A. Burns School of Medicine, September 20, 2000
Lecture: Current Concepts on Shoulder Biomechanics

Grand Rounds Lecture
Department of Orthopaedic Surgery, University of Southern California, October 27, 2000
Lecture: Shoulder Biomechanics

Department of Orthopaedic Surgery, Yonsei University, Seoul, Korea, April 12, 2001
Lecture: Current Advances in Patellofemoral Joint Biomechanics Research

Department of Orthopaedic Surgery, Yonsei University, Seoul, Korea, April 13, 2001
Lecture: Current Advances in Shoulder Biomechanics Research

Southern California Insurance Professionals First Annual Seminar
Los Angeles, California, May 8, 2001
Lecture: Biomechanics of Injury

Kerlan-Jobe Orthopaedic Clinic Research Day Lecture, Kerlan-Jobe Orthopaedic Clinic
Los Angeles, California, June 8, 2001
Lecture: Gender Differences in Patellofemoral Joint Biomechanics

“Bioengineering at the Dawn of 21st Century” Lecture, Department of Orthopaedic Surgery,
University of Pittsburgh, Pittsburgh, Pennsylvania, July 14, 2001
Lecture: Patellofemoral Joint Biomechanics

Southern California Fraud Investigators Association, 22nd Annual Seminar
Palm Springs, California, October 9-12, 2001
Lecture: Biomechanics and Orthopaedic Injuries, I&II

Introduction to Biomedical Engineering Lecture (ENGR 195/295)
University of California Irvine, February 26, 2002
Lecture: Biomechanics of Glenohumeral Joint and Patellofemoral Joint

Guest Lecturer, Pennsylvania Orthopaedic Society
Rio Mar, Puerto Rico, April 11, 2002
Lecture: Glenohumeral Joint Biomechanics

Guest Lecturer, Pennsylvania Orthopaedic Society
Rio Mar, Puerto Rico, April 12, 2002
Lecture: Patellofemoral Joint Biomechanics

National Institute of Forensic Studies
Orange, California, August 15, 2002
Lecture: Biomechanics of Injury

Grand Rounds Lecture
Department of Orthopaedic Surgery, Cleveland Clinic, Cleveland, Ohio, January 17, 2002
Lecture: Shoulder Biomechanics

Biomedical Engineering Seminar
Department of Biomedical Engineering, Cleveland Clinic, Cleveland, Ohio, January 17, 2002
Lecture: Shoulder and Knee Biomechanics

Grand Rounds Lecture
Department of Orthopaedic Surgery, University of California San Francisco, January 22, 2002
Lecture: Shoulder Biomechanics

Youth to University of California Riverside
Riverside, California, May 10, 2003
Lecture: Youth to University of California

2003 Spinal Cord Conference and Training, James J. Peters Symposium on Advances in SCI
Research and Clinical Care
Long Beach, California, June 4, 2003
Lecture: Biomechanics of the Shoulder in Persons with SCI

2003 Spinal Cord Conference and Training, James J. Peters Symposium on Advances in SCI
Research and Clinical Care
Long Beach, California, June 7, 2003
Lecture: Biomechanics of the Shoulder

Musculoskeletal Research Center, University of Pittsburgh
Pittsburgh, PA, October 20, 2003
Lecture: Shoulder Biomechanics: Importance of Laboratory Studies

Department of Orthopaedic Surgery University of Connecticut
Farmington Connecticut, November 13-14, 2003
Lecture: Shoulder Biomechanics Research

American Academy of Orthopaedic Surgeons (AAOS) 17th Annual Meeting Specialty Day
American Shoulder and Elbow Surgeons (ASES)
San Francisco, California, March 13, 2004
Lecture: Current Basic Science Concepts on Instability and Repair

Key Note Speaker
Kanagawa Hand & Elbow Meeting
Yokohama, Japan, April 20, 2004
Lecture: Biomechanics of the Elbow

Key Note Speaker
The 47th Annual Meeting of the Japanese Society for Surgery of the Hand
Osaka, Japan, April 22-24, 2004
Lecture: Effects of Forearm Rotation on the Elbow and Wrist

University of California San Francisco, Department of Orthopaedic Surgery
April 7, 2004
Lecture: Biomechanics of Total Knee Arthroplasty

University of Southern California, Graduate Orthopaedic Society (SOGOS)
Pasadena, California, June 19, 2004
Lecture I: Joint Reaction Forces in Total Shoulder Arthroplasty
Lecture II: Biomechanical Effects of Soft Tissue Plication

Visiting Professor Lecture
Department of Biomedical Engineering, Inje University, Busan, Korea. November 12, 2004
Lecture: Shoulder Biomechanics

Visiting Professor Lecture

Department of Orthopaedic Surgery, Ajou University, Suwon, Korea. November 12, 2004
Lecture: Glenohumeral Instability and Repair

Grand Rounds Lecture

Department of Orthopaedic Surgery, University of California Irvine, January 27, 2005
Lecture: Glenohumeral Instability and Repair – Biomechanical Perspective

Biomedical Engineering Lecture

15th Annual Korean American Scientists and Engineers Association, March 5, 2005
Lecture: Shoulder Biomechanics

University of Southern California, Graduate Orthopaedic Society (SOGOS)

Manhattan Beach, California, May 7, 2005
Lecture: Biomechanics of the Patellofemoral Joint

Health Science Scholars' Summer Program

VA Long Beach Healthcare System. August 9, 2005
Lecture: Being an Academic Scientist in Orthopaedic Biomechanics

Biomedical Engineering Lecture

2005 US-Korea Conference on Science, Technology & Entrepreneurship, Irvine, California,
August 13, 2005
Lecture: Biomechanics of Total Knee Arthroplasty and Kneeling

Visiting Professor Lecture

Department of Orthopaedic Surgery, Toyama University
Toyama, Japan. September 28, 2005
Lecture: Biomechanics of Total Knee Arthroplasty

Invited Speaker

The 18th Annual Meeting of the International Society for Technology in Arthroplasty
Kyoto, Japan, September 29 – October 2, 2005

Visiting Professor Lecture

Department of Orthopaedic Surgery, Teikyo University
Tokyo, Japan. October 3, 2005
Lecture: Working Towards Better Understanding of Glenohumeral Joint Instability

Visiting Professor Lectures

Department of Orthopaedic Surgery, Inje University, Busan, Korea. December 8, 2005
Lecture: Biomechanics of Glenohumeral Instability
Department of Biomedical Engineering, Inje University, Busan, Korea. December 9, 2005
Lecture: Biomechanics of the Patellofemoral Joint and Total Knee Arthroplasty

Grand Rounds Lecture

Department of Orthopaedic Surgery, University of Southern California, February 3, 2006

Lecture: Biomechanics of Glenohumeral Instability

U.C. Irvine Multidisciplinary Exercise Science Lecture, February 18, 2006

Lecture: Biomechanics of Thrower's Shoulder and Glenohumeral Instability

Grand Rounds Lecture

Congress Medical Foundation, December 21, 2006

Lecture: Biomechanics of Glenohumeral Instability

Grand Rounds Lecture

Department of Orthopaedic Surgery, University of Southern California, March 16, 2007

Lecture: Throwers Shoulder

Grand Rounds Lecture

Department of Orthopaedic Surgery, University of California Irvine, March 22, 2007

Lecture: Throwers Shoulder – Impingement and Peelback Mechanisms

Orange County Sheriff's Department – Case Lecture, December 18, 2007

Lecture: Injury Biomechanics

Grand Rounds Lecture

Southern California Institute for Research and Education, January 22, 2008

Lecture: Biomechanics of Glenohumeral Instability

Grand Rounds Lecture

Orthopaedic Specialty Institute, February 6, 2008

Lecture: Biomechanics

Symposium Lecture

Closed Meeting of the American Shoulder and Elbow Surgeons, September 5, 2008

Lecture: How to Obtain Funding in Shoulder and Elbow Research

Grand Rounds Lecture

Orthopaedic Specialty Institute, September 24, 2008

Lecture: Biomechanics of Glenohumeral Instability

Grand Rounds Lecture

Congress Medical Foundation, November 20, 2008

Lecture: Biomechanics of Meniscus

Keynote Lecture

International Symposium on Ligaments and Tendons, February 21, 2009

Lecture: Rabbit Subscapularis Model for Studying Rotator Cuff Pathology and Repair

Grand Rounds Lecture
Department of Orthopaedic Surgery, University of Utah, March 27, 2009
Lecture: Shoulder Biomechanics Research – Simple to Complex

Grand Rounds Lecture
Orthopaedic Specialy Institute, Novemver 18, 2009
Lecture: Biomechanics

RESEARCH

PEER REVIEWED RESEARCH SUPPORT

Current Research Support

Senior Research Career Scientist Award

Source: Rehab R&D, Department of Veterans Affairs
Funding Period: 2010 – 2017
Investigators: **Lee TQ**
Role: Principal Investigator

Research Career Scientist Award

Source: Rehab R&D, Department of Veterans Affairs
Funding Period: 2005 – 2010
Investigators: **Lee TQ**
Role: Principal Investigator

Biomechanics of Kneeling following TKA (In-Vitro Human Cadaver Study)

Source: VA Rehab R&D
Funding: \$531,715 (Direct Cost)
Funding Period: 2008 - 2011
Investigators: **Lee TQ, Kim WC**
Role: Principal Investigator

Pending Research Support

Previous Research Support

Total Knee Arthroplasty and Knee Joint Line

Source: Merit Review Service, Medical Research
Department of Veterans Affairs
Funding: \$377,100 (Direct Cost)
Funding Period: 2004 - 2007
Investigators: **Lee TQ**, Kim WC, Nance PW, Skinner HB
Role: Principal Investigator

Biomechanics of the Shoulder – Research Career Scientist Award

Source: Rehab R&D, Department of Veterans Affairs
Funding Period: 2000 – 2005
Investigators: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Patellofemoral Joint

Source: Rehab R&D, Department of Veterans Affairs
Funding: \$225,500 (Direct Costs)
Funding Period: 1998 - 2001
Investigators: **Lee TQ**, McMahon PJ, Kim WC, Anzel SH, Skinner HB
Role: Principal Investigator

Biomechanics of the Glenohumeral Joint in Spinal Cord Injury Patients

Source: Rehab R&D, Department of Veterans Affairs
Funding: \$333,900 (Direct Costs)
Funding Period: 1998 – 2001
Investigators: **Lee TQ**, McMahon PJ, Anzel SH, McMaster WC, Yu J
Role: Principal Investigator

Biomechanics of the Patellofemoral Joint and Peripatellar Retinaculum

Source: Rehab R&D, Department of Veterans Affairs
Funding: \$136,400 (Direct Costs)
Funding Period: 1996 - 1998
Investigators: **Lee TQ**, Skinner HB, Kim WC, Anzel SH
Role: Principal Investigator

Effect of Bankart Lesion on the Glenohumeral Joint with Simulated Muscle Forces

Source: Rehab R&D, Department of Veterans Affairs
Funding: \$134,800 (Direct Costs)
Funding Period: 1996 - 1998
Investigators: **Lee TQ**, McMahon PJ
Role: Co-Principal Investigator

Quantitative Assessment of Prosthetic and Biologic Patellar Resurfacing

Source: Merit Review Service, Medical Research
Department of Veterans Affairs
Funding: \$249,500 (Direct Costs)
Funding Period: 1992 - 1995
Investigators: Lee TQ, Anzel SH, Kim WC
Role: Co-Principal Investigator

Biomechanics of Patellofemoral Joint Disorders

Source: RR&D, Department of Veterans Affairs
Funding: \$110,000 (Direct Costs)
Funding Period: 1989 - 1991
Investigators: Anzel SH, Lee TQ
Role: Co-Investigator

CURRENT NON PROFIT FOUNDATION RESEARCH SUPPORT

Biomechanics of the Shoulder and Rotator Cuff Tear and Repair

Source: Kerlan-Jobe Orthopaedic Foundation
Funding: \$24,000
Funding Period: 2008 - 2009
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Knee

Source: John C. Griswold Foundation
Funding: \$15,000
Funding Period: 2008-2009
Investigator: **Lee TQ**
Role: Principal Investigator

PREVIOUS NON PROFIT FOUNDATION RESEARCH SUPPORT

Biomechanics of the Shoulder and Rotator Cuff Tear and Repair

Source: Kerlan-Jobe Orthopaedic Foundation
Funding: \$12,000
Funding Period: 2007 - 2008
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Knee

Source: John C. Griswold Foundation
Funding: \$15,000
Funding Period: 2007-2008
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Rotator Cuff Tear and Repair

Source: Kerlan-Jobe Orthopaedic Foundation
Funding: \$6,000
Funding Period: 2006 - 2007
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Knee

Source: John C. Griswold Foundation
Funding: \$15,000
Funding Period: 2006-2007
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Rotator Cuff Tear and Repair

Source: Kerlan-Jobe Orthopaedic Foundation
Funding: \$12,000
Funding Period: 2005 - 2006
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Knee

Source: John C. Griswold Foundation
Funding: \$15,000
Funding Period: 2005-2006
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the AC Joint and Reconstruction

Source: Congress Medical Foundation
Funding: \$23,000
Funding Period: 2005 - 2006
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the New Ulnar Collateral Ligament Reconstruction on the Elbow

Source: Mississippi Orthopaedic Research Foundation
Funding: \$10,000
Funding Period: 2005
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Knee

Source: John C. Griswold Foundation
Funding: \$15,000
Funding Period: 2004-2005
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Elbow

Source: Kerlan-Jobe Orthopaedic Foundation
Funding: \$12,000
Funding Period: 2004 - 2005
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Knee

Source: John C. Griswold Foundation
Funding: \$15,000
Funding Period: 2003-2004
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Elbow

Source: Kerlan-Jobe Orthopaedic Foundation
Funding: \$12,000
Funding Period: 2003 - 2004
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Knee

Source: John C. Griswold Foundation
Funding: \$12,000
Funding Period: 2002-2003
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Elbow

Source: Kerlan-Jobe Orthopaedic Foundation
Funding: \$12,000
Funding Period: 2002 - 2003
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of Posterolateral Corner and Hyperextension Injuries

Source: Kaiser Permanente
Funding: \$18,000
Funding Period: 2002 - 2003
Investigators: Fithian D, **Lee TQ**
Role: Co-Principal Investigator

Biomechanics of the Shoulder and Elbow

Source: Kerlan-Jobe Orthopaedic Foundation
Funding Period: 2001 - 2002
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder and Knee

Source: John C. Griswold Foundation
Funding: \$12,000
Funding Period: 2001-2002
Investigator: **Lee TQ**
Role: Principal Investigator

Effects of Ulnar Collateral Ligament Transection of V-V Stability of the Elbow

Source: Kaiser Permanente
Funding: \$16,000
Funding Period: 2001 - 2002
Investigators: Safran MR, **Lee TQ**
Role: Co-Principal Investigator

Biomechanics of the Shoulder and Knee

Source: John C. Griswold Foundation
Funding: \$15,000
Funding Period: 2000-2001
Investigator: **Lee TQ**
Role: Principal Investigator

CURRENT COMMERCIAL RESEARCH SUPPORT

Non Restricted Research Grant for Soft Tissue Fixation

Source: Arthrex, Inc
Funding: \$115,000
Funding Period: 2008 - 2009
Investigator: **Lee TQ**

Biomechanics of Proximal Femur Plating

Source: Smith & Nephew
Funding: \$45,000
Funding Period: 2008-2009
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of Ulnar Fracture Fixation

Source: Acumed
Funding: \$10,000
Funding Period: 2008-2009
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of Reverse Shoulder Arthroplasty

Source: Tornier
Funding: \$24,000
Funding Period: 2009-2010
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder Resurfacing

Source: ArthroSurface, Inc
Funding: \$40,250
Funding Period: 2006 - 2008
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Rotator Cuff Repair

Source: ArthroCare, Inc
Funding: \$46,000
Funding Period: 2008
Investigator: **Lee TQ**
Role: Principal Investigator

PREVIOUS COMMERCIAL RESEARCH SUPPORT

Biomechanics of Kneeling and Total Knee Arthroplasty

Source: Zimmer, Inc
Funding: \$80,000
Funding Period: 2004 - 2005
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Shoulder

Source: Stryker, Inc
Funding: \$30,000
Funding Period: 2003 - 2005
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of the Spine

Source: Infinesse Corp
Funding: \$5,000
Funding Period: 2004
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of Total Shoulder Arthroplasty and Bipolar Arthroplasty

Source: Howmedica Osteonics
Funding: \$36,000
Funding Period: 2001 - 2002
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanics of Gothenburg Total Hip Arthroplasty

Source: Astra Tech. Gothenburg University, Gothenburg, Sweden
Funding: \$30,000
Funding Period: 1998 - 1999
Investigator: **Lee TQ**
Role: Principal Investigator

Patellofemoral Kinematics and Contact Pressures Before and After TKA Using Howmedica's

Duracon Knee System

Source: Howmedica Osteonics
Funding: \$36,000
Funding Period: 1995 - 1997
Investigators: **Lee TQ, Gorab R**
Role: Co-Principal Investigator

Strength of Interference Screw Fixation-Effect of Screw Angle

Source: Orthopaedic Research Institute
Funding: \$6,000
Funding Period: 1996
Investigator: **Lee TQ**
Role: Principal Investigator

Biomechanical Evaluation of Laser Assisted Capsulorrhaphy

Source: Trimedyn, Inc.
Funding: \$6,000
Funding Period: 1996
Investigators: **Lee TQ, McMahon PJ, Schulz MM**
Role: Principal Investigator

Tensile Strength of Repaired Goat Patellar Tendon

Source: S.C. Center for Sports Medicine
Funding: \$6,000
Funding Period: 1995
Investigator: **Lee TQ**
Role: Principal Investigator

Tensile Strength of Repaired Goat Meniscus

Source: S.C. Center for Sports Medicine
Funding Period: 1994
Investigator: **Lee TQ**
Role: Principal Investigator

Tensile Strength of Repaired Meniscus

Source: S.C. Center for Sports Medicine
Funding: \$6,000
Funding Period: 1993
Investigator: **Lee TQ**
Role: Principal Investigator

Tensile Properties of Collagen Fiber Bundles for Ligament Graft Material

Source: Howmedica Osteonics
Funding: \$3,000
Funding Period: 1992
Investigator: **Lee TQ**
Role: Principal Investigator

Strength of Interference Screw Fixation-Effect of Screw Angle

Source: S.C. Center for Sports Medicine
Funding: \$6,000
Funding Period: 1992
Investigator: **Lee TQ**
Role: Principal Investigator

Strength of Interference Screw Fixation

Source: Howmedica Osteonics
Funding: \$36,000
Funding Period: 1991
Investigators: **Lee TQ**, Jackson D, Shapiro J, Simon T
Role: Principal Investigator

Biomechanics of Uncemented Total Knee

Source: Kirschner Medical
Funding: \$200,000
Funding Period: 1988 - 1993
Investigators: Kim WC, **Lee TQ**, Anzel SH
Role: Co-Principal Investigator

Biomechanics of Modular Total Hip Arthroplasty

Source: Dow Corning Wright
Funding: \$150,000
Funding Period: 1988 - 1993
Investigators: Kim WC, **Lee TQ**, Anzel SH
Role: Co-Principal Investigator

THESIS / DISSERTATION

MS Thesis in Applied Mechanics, 1986

“The Application of a New Image Reconstruction Technique for Cross-Sectional Area Measurement of Ligaments and Tendons”

Department of Applied Mechanics and Engineering Sciences

University of California San Diego, La Jolla, California

Thesis Advisor: Savio L-Y Woo, PhD

PhD Dissertation in Biomaterials, 1999

“On the Biomechanics of Patelofemoral Joint and Patellar Resurfacing in Total Knee Arthroplasty”

Department of Biomaterials/Handicap Research, Institute for Surgical Sciences

Gothenburg University, Gothenburg, Sweden

Thesis Advisor: Tomas Albrektsson, MD, PhD

Thesis Opponent: Gunnar Nemeth, MD, PhD

Thesis Committee: Peter Thomsen, MD, PhD, Lars Carlsson, MD, PhD,

Tord Berglund, MD, PhD

ORIGINAL RESEARCH ARTICLES

1. Lee **TQ**, Schmid-Schoenbein GW, Zweifach BW: The Application of an Improved Dual-Slit Photometric Analyzer for Volumetric Flow Rate Measurements in Microvessels. *Microvasc Res*, 26:351-361, 1983.
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219. Gates JJ, Gilliland J, McGarry MH, Acevedo D, Park, Fitzpatrick MJ, **Lee TQ**: The Influence of Distinct Anatomic Subregions of the Supraspinatus on Humerus Rotation. Transactions of the 54th Annual Meeting of the Orthopaedic Research Society, February 2008, San Francisco, CA.
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225. Cheung S, Fitzpatrick MJ, **Lee TQ**: Effects of Shoulder Position on Axillary Nerve Positions during the Split Lateral Deltoid Approach. 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 2008, San Francisco, CA.
226. Magit D, Tibone JE, **Lee TQ**: In Vivo Comparison of Glenohumeral Translation after Arthroscopic Anterior Capsulolabral Repairs. 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, March 2008, San Francisco, CA.
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229. Mihata T, McGarry MH, Pirolo JM, Kinoshita M, **Lee TQ**: Superior Capsule Reconstruction of an Irreparable Cuff Tear Restores Superior Glenohumeral Stability. Transactions of the 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, February 2009, Las Vegas, NV.
230. Michlitsch MG, Adamson GJ, Pink M, Estess A, Shankwiler JA, **Lee TQ**: Biomechanical Analysis of a Novel Free Tissue Graft Reconstruction of the CC and AC Ligaments. Transactions of the 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, February 2009, Las Vegas, NV.
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261. Ishigooka H, McGarry MH, Chen Y, Gupta A, Quigley RJ, Bui C, **Lee TQ**: Kinematics of the Posterolateral Corner of the Knee: A Cadaveric Study. 56th Annual Meeting of the Orthopaedic Research Society. March 2010, New Orleans, LA.
262. Schlegel T, Otarodifard K, Hawkins R, Vangsness T, Bui C, McGarry MH, **Lee TQ**: Knotless Rotator Cuff Repairs: Do They Hold up to a Transosseous Equivalent Repair? 56th Annual Meeting of the Orthopaedic Research Society. March 2010, New Orleans, LA.
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264. Dodson C, Dines J, McGarry MH, Oh JH, Altcheck D, **Lee TQ**: Comparing the Modified

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266. Lin T, Javidan P, McGarry M, Lomas G, Limpisvasti O, **Lee TQ**: Glenohumeral Contact During a Simulated Active Compression Test in Cadaveric Shoulders. Annual Meeting of the American Academy of Orthopaedic Surgeons. March 2010, New Orleans, LA.
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269. Lomas G, Javidan P, Lin T, Adamson G, Limpisvasti O, **Lee TQ**: Intramedullary AC Ligament Reconstruction with Suture-Button Fixation Strengthens Isolated CC Ligament Reconstruction in AC Dislocations. Annual Specialty Day of the American Academy of Orthopaedic Surgeons, (American Orthopaedic Society for Sports Medicine) March 2010, New Orleans, LA.
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- Graft Reinforcement. 56th Annual Meeting of the Orthopaedic Research Society. March 2010, New Orleans, LA.
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278. Dodson C, Altchek D, Dines J, McGarry M, Oh JH, O'Brien S, **Lee TQ**: Biomechanical Analysis Comparing the Modified Latarjet Procedure with a Novel Subscapularis Tenodesis Technique in a Cadaveric Anterior Shoulder Instability Model. 56th Annual Meeting of the Orthopaedic Research Society. March 2010, New Orleans, LA.
279. Javidan P, Lomas G, Lin T, Adamson G, Limpisvasti O, **Lee TQ**: Intramedullary AC Ligament Reconstruction Strengthens Isolated CC Reconstruction in AC Dislocations. 56th Annual Meeting of the Orthopaedic Research Society. March 2010, New Orleans, LA.
280. Jun BJ, McGarry M, Oh JH, **Lee TQ**: Geometry-Driven Glenohumeral Joint Muscle Force Calculation Based on Three-Dimensional Muscle Force Vectors. 56th Annual Meeting of the Orthopaedic Research Society. March 2010, New Orleans, LA.
281. Lin T, Javidan P, Lomas G, McGarry M, Limpisvasti O, **Lee TQ**: Glenohumeral Contact in a Simulated Active Compression Test in Cadaveric Shoulders. 56th Annual Meeting of the Orthopaedic Research Society. March 2010, New Orleans, LA.
282. Jun BJ, McGarry M, Oh JH, **Lee TQ**: Specimen Specific Geometry-Driven Glenohumeral Joint Capsular Length Calculation Method. 56th Annual Meeting of the Orthopaedic Research Society. March 2010, New Orleans, LA.
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- Meeting of the Orthopaedic Research Society. March 2010, New Orleans, LA.
285. Hofer JK, Gejo R, McGarry M, Lee TQ: Kinematics of Kneeling with Posterior Cruciate Retaining and Substituting Total Knee Arthroplasty. Annual Meeting of the American Academy of Orthopaedic Surgeons. March 2010, New Orleans, LA.
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 287. Wanich T, Javidan P, Limpisvasti O, McGarry M, **Lee TQ**: The Effect of Bankart Repair Technique on Capsulolabral Height. Annual Meeting of the American Academy of Orthopaedic Surgeons. March 2010, New Orleans, LA.
 288. Fitzpatrick M, Chung KC, McGarry M, **Lee TQ**: The Lateral Humeral Safe Zones: The Effects of Shoulder Position on the Location of the Radial and Axillary Nerves. Annual Meeting of the American Academy of Orthopaedic Surgeons. March 2010, New Orleans, LA.
 289. Steinhoff A, Bui C, McGarry M, Zamorano D, **Lee TQ**: Biomechanical Comparison of Locked vs. Compression Periarticular Plating of Tibial Plateau Fractures. Annual Meeting of the American Academy of Orthopaedic Surgeons. March 2010, New Orleans, LA.
 290. Min KS, Zamorano D, Wahba G, Garcia I, Bhatia N, **Lee TQ**: Comparison of Trans-sacral and Triangular Osteosynthesis in an Unstable Pelvic Fracture. Annual Meeting of the American Academy of Orthopaedic Surgeons. March 2010, New Orleans, LA.

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