Curriculum Vitae

Kai-Nan An, Ph.D.

Biomechanics Laboratory, Division of Orthopedic Research Office: Mayo Clinic 200 First Street, S.W.

Rochester, MN 55905 USA

Present Position: Emeritus, Department of Orthopedic Surgery, Mayo Clinic; Supplemental, Department of Orthopedic Surgery and Department of Physical Medicine and Rehabilitation, Mayo Clinic Professor of Bioengineering, Mayo Medical School

Education: Institution and Location	Degree	Year Conferred	Field of Study
National Cheng-Kung University, Taiwan, Republic of China	B.S.	1969	Mechanical Engineering
Lehigh University, Bethlehem, PA	M.S.	1972	Applied Mechanics
Lehigh University, Bethlehem, PA	Ph.D.	1975	Mechanical Engineering and Applied Mechanics

License:

Engineering-in-Training of Professional Engineers in Pennsylvania

Patents:

US Patent 6,668,688 - Expandable Screw Apparatus and Method

US Patent 7,060,066 - Spinal Fixation Support Device and Methods of Using

US Patent 8.211,180 - Temporomandibular Joint Fossa-Eminence Prosthesis

US Patent 8,216,148 - Doppler Ultrasound for Identifying Material Properties of a Carpal Tunnel Anatomy

US Patent 8,894,707 - Tendon or Ligament Tissue Engineering

US Patent 8,900,319 - Acetabular Cup Prosthesis

US Patent 8,795,181 - System and Method for Non-Invasive Measurement of Carpal Tunnel Pressure

US Patent 9,125,615 B2 - System and Method for Non-Invasive Measurement of Carpal Tunnel Pressure

US Patent 9,301,844 B2 - Acetabular Cup Prosthesis

US Patent 10,736,621 - System and Method for Monitoring of A Mechanical Force

US patent 10,842,915 - Hip implant Excera Orthopedics Inc

Research and Professional Experience:

Research and Professional Experience:	Years
Emeritus Professor, Department of Orthopedic Surgery, Mayo Clinic	2014-Present
Supplemental Staff, Department of Orthopedic Surgery, Mayo Clinic	3/2015-Present
Supplemental Staff, Department of Physical Medicine & Rehabilitation, Mayo Clinic	5/2017-5/2019
John and Posy Krehbiel Professor of Orthopedics, Mayo Medical School	1993-2014
*Consultant, Department of Physiology and Biomedical Engineering	2004-2014
Chair, Division of Orthopedic Research, Department of Orthopedics, Mayo Clinic	1993-1/2005
Director, Biomechanics Laboratory, Department of Orthopedics, Mayo Clinic	1992-2014
Adjunct Professor, Department of Orthopedic Surgery,	
Texas Tech University Health Sciences Center	1988-1992
Professor of Bioengineering, Mayo Medical School	1988-2014
Associate Professor of Bioengineering, Mayo Medical School	1984-1988
Assistant Professor of Bioengineering, Mayo Medical School	1980-1984
*Consultant, Division of Orthopedic Research, Mayo Clinic	1980-2014
Associate Consultant, Orthopedic Research, Mayo Clinic	1978-1980
Research Associate, Orthopedic Research, Mayo Clinic	1975-1978
*Joint Appointment	

Curriculum Vitae, Kai-Nan An, Ph.D. June 28, 2021

Honors	:
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Honors:	
TSB Life Achievement Award, Taiwan Society of Biomechanics	October 2017
Distinguished Alumni Award, Mayo Clinic	2016
The Muybridge Award, International Society of Biomechanics	July 2015
CORR-ORS Richard A. Brand Award "Engineering Flexor Tendon Repair with	February 2014
Lubricant Cells and Cytokines in a Canine Model" as Coauthor, Orthopedic	
Research Society	
The Emanuel Kaplan Award for Anatomical Excellence, The New York Society	
for Surgery of the Hand, and the American Society for Surgery of the Hand	October 2010
The Ian Kelly Best Paper Award, International Congress on Shoulder & Elbow Surgery	September 2010
Wartenweiler Memorial Lecture, International Society of Biomechanics	July 2007
Aircast Award for Clinical Science Presentation, American Orthopaedic Society	
of Sports Medicine (AOSSM)	July 2007
Fellow, American Society of Mechanical Engineers	2007
Mayo Distinguished Investigator Award	2005
Borelli Award, American Society of Biomechanics	2005
You-Li Chou Medal, Taiwanese Society of Biomechanics	2003
Distinguished Visiting Professor, National University of Singapore	1998
Distinguished Alumnus Award, National Cheng-Kung University	1996
Fellow, American Society of Biomechanics	1996
Neer Award, American Shoulder and Elbow Surgeons	1990
American Society for Surgery of the Hand, Best Scientific Poster	1992
Exhibit Award, 1989 Annual Meeting	1989
American Orthopaedic Society for Sports Medicine, Research Award	1989
American Orthopaedic Society for Sports Medicine, Research Award	1986
American Orthopaedic Society for Sports Medicine, Research Award	1985
Neer Award, American Shoulder and Elbow Surgeons	1985
Kappa Delta Award, American Academy of Orthopaedic Surgeons	1984
Phi-Tau-Phi, Scholastic Honorary Society	
Societies and Committees:	
Extramural:	
Medical Rehabilitation Research Subcommittee member, NICHD	1997-2001
Chinese Speaking Orthopaedic Society, Board of Directors	1997-Present
Orthopaedic Research Education Foundation,	1997 Hesent
Career/Residents Award Peer Review Committee, Co-chairman	1995-2001
American Society of Biomechanics, President	1995-1996
American Institute for Medical and Biological Engineering Founding Fellow	1993-Present
NIH, National Institute of Arthritis, Musculoskeletal, and	1 <i>775</i> -1 resent
Skin Diseases, Study Section Member	1991-1995
Orthopaedic Research Society; Board of Directors and	1))1-1))3
Chairman, Membership Committee	1990-1993
American Shoulder and Elbow Surgeons; Affiliate Member	1988-Present
Rocky Mountain Bioengineering Society, Board of Directors	1988-2001
	1988-1993
American Shoulder and Elbow Surgeons; Research Committee	2002-2004
American Shoulder and Elbow Surgeons, Research Committee	
American Society of Biomechanics; Member	1981-2014 2015 Present
American Society of Biomechanics; Emeritus Member	2015-Present
Sigma Xi Research Society, Member	1978-Present
Orthopaedic Research Society, Member	1976-Present
American Society of Mechanical Engineers, Member	1975-Present
World Association for Chinese Biomedical Engineers, Advisory Board Member	2007-Present
National Health Research Institute, Division of Medical Engineering Research,	2008 Decent
Advisory Board Member	2008-Present

College of Center for Scientific Reviewers, National Institutes of Health, DHHS	Present
Member/Reviewer2010-1Research Grants Council of Hong Kong, Biology & Medicine Research Panel2010-1	Present
	1998 Present Present
Journal of Mechanics in Medicine and Biology, Advisory Board 2011-	2014 2013 2006 2014 2014 2013 1999 1998 1998

Publications: Papers/book chapters: 940