CURRICULUM VITAE ANDREW JOSEPH FUGLEVAND

Date of Birth: May 25, 1958 Place of Birth: Havre, MT, USA

Citizenship: USA

Present Position: Work Address:

Professor Departments of Physiology
College of Medicine

University of Arizona

PO Box 245051

Tucson, AZ 85724-5051 tel. 520-621-6983

email: fuglevan@email.arizona.edu

Education

Montana State University, Bozeman B.S. Biomechanics 1980 University of Washington, Seattle M.S. Kinesiology 1983 University of Waterloo, Canada Ph.D. Kinesiology 1989

Dissertation Title: A Population Model of the Motor Unit Pool: Relationship of Neural

Control Properties to Isometric Muscle Tension and the Electromyogram

Dissertation Directors: David A. Winter, Ph.D. and Aftab E. Patla, Ph.D.

Career History

University of Washington, Seattle,	Teaching & Research	1980-1982
Department of Kinesiology	Assistant	
Cumberland College of Health Sciences,	Lecturer	1983-1984
Sydney, Australia, Department of		
Biological Sciences		
University of Waterloo, Canada,	Teaching & Research	1985-1989
Department of Kinesiology	Assistant	
University of Arizona, Tucson,	Postdoctoral Fellow	1989-1992
Motor Control Group		
John B. Pierce Laboratory, New Haven	Postdoctoral Associate	1992-1993
John B. Pierce Laboratory, New Haven	Assistant Fellow	1993-1996
University of Arizona, Tucson,	Research Assistant	1996 - 1997
Department of Physiology	Professor	
University of Arizona, Tucson,	Assistant Professor	1997-2003
Departments of Physiology	Associate Professor	2003-2010
Department of Neuroscience	Associate Professor	2005
Departments of Physiology and	Professor	2010-
Neuroscience		
Graduate Programs in Neuroscience,	Member	1997-
Physiological Sciences, Biomedical		
Engineering		

Major Fields of Research

Neurophysiology, Motor Control, Biomechanics

Honors and Awards

University of Waterloo Graduate Student Scholarship	1987-1988
Engineering Foundation Conference Student Scholarship	1987
National Institutes of Health, NRSA Postdoctoral Fellowship	1990-1992
Distinguished Visiting Scholar, Faculty of Science,	1999
University of Adelaide	
Distinguished Visiting Research Professor	
Women's Board, Rehabilitation Institute of Chicago	2002
Associate Editor, Neuroscience Letters	2004 - present
Associate Editor, Journal of Neurophysiology	2012-2014
University of Arizona Motor Board Senior Honorary	2005, 2007
Teaching Recognition Award	
Delsys Prize for Innovation in Electromyography	2006
Member, NIH Musculoskeletal & Rehabilitation Sciences Study Section	2007-2011

Teaching Experience

University of Washington, Seattle

Kinesiology 205 - Biomechanics	90 students	1982
Kinesiology 331 - Kineoenergetics	60 students	1982
Kinesiology 580 - Digital Computing	8 grad students	1982
Techniques		

Cumberland College of Health Sciences, Sydney, Australia

Biological Sciences 11312 - Biomechanics	90 students/class	1983-1984
for Occupational Therapy		
Biological Sciences 11313 - Biomechanics	20 students/class	1983-1984
for Physiotherapy		
Human Movement Analysis 11407	25 grad students	1984
Biomechanics of Human Motion 11410	15 grad students	1984

University of Arizona, Tucson

Motor Control Colloquium - Modeling in	20 grad students/postdocs	1991
Motor Control		
Neuroscience 589 -Principles of	14 grad students/year	1997-2006
Systems Neurobiology		
Physiology 464 – Neurophysiology: Sensori-	80 undergraduates/year	1998-2012
Motor Perspective (course developer and so	le instructor)	
Physiology 564 – Neurophysiology: Sensori-	8 graduates/year	1998-2012
Motor Perspective	-	

Neuroscience 588 – Cellular/Molecular Neuro.	24 graduate students/year	2011-
Neuroscience 560 – Systems Neuroscience	15 graduate students/year	2012-
(course developer and coordinator)		
Physiology 465 – Neurophysiology	>200 students/year	2013-
(course developer and sole instructor)		
Psychology 506B – Cognitive Neuroscience	20 students/year	2015-

Short Course Instructor

Neurophysiology Laboratory Course, Graduate Program in Physiology, Oregon Health Sciences University, Portland, (2000-2003)

Neural Control of Movement Summer Course, University of Waterloo, Canada, June 20-23, 2004

IGERT, Applied Mathematics Biophysics Lab Course, University of Arizona, 2005

University Service

Membership on University Committees

University of Arizona Graduate College Representative for Comprehensive Examinations University of Arizona Outcomes Assessment Committee

University of Arizona Undergraduate Writing Proficiency Examination Assessment

Institutional Animal Care and Use Committee (2005-2008)

Committee to Evaluate Head of Physiology (2011)

Membership on College of Medicine Committees

College of Medicine Continuing Medical Education Committee (2004-2005)

Membership on Departmental Committees

Teaching Committee, Chair, Physiological Sciences Graduate Program (2003-2004)

Executive Committee, Physiological Sciences Graduate Program (2003-2004)

Self-Study Committee, Academic Program Review, Program in Neuroscience (2003)

Long-range Planning Committee, Physiological Sciences Graduate Program (2003)

Executive Committee, Graduate Program in Neuroscience (2004-2008)

Liaison Committee Department Head Search, Department of Physiology (2004-2005)

Promotion and Tenure Committee, ARL Division of Neurobiology (2006)

Post-Tenure Review Committee, Department of Physiology (2005 – 2007)

Assistant Professor Search Committee, Department of Physiology (2007)

Master's Degree Coordinator, Physiological Sciences Graduate Program (2007-2009)

Executive Committee, Graduate Program in Physiological Sciences (2009 - 2010)

Resources Committee Chair, Graduate Program in Physiological Sciences (2009 -2010)

Curriculum Committee, Department of Physiology (2009)

Curriculum Committee, Department of Neuroscience (2009)

Recruitment Committee, Graduate Program in Physiological Sciences (2010)

Promotion and Tenure Committee, Department of Physiology (2011-)

Executive Committee, Graduate Program in Neuroscience (2012-2014)

Recruitment Committee, Graduate Program in Physiological Sciences (2013-)

Executive Committee, Graduate Program in Neuroscience (2015-)

Graduate Student Advisor, Graduate Program in Neuroscience (2015-)

Advising Postdoctoral Fellows

Douglas Keen (2003-2005) Li-Wei Chou (2007-2008) Robert Tibold (2012-2013) Brad Harwood (2013-2014)

Doctoral Dissertations Supervised

Douglas A. Keen, Ph.D. (2002) Graduate Program in Physiological Sciences, University of Arizona "Neural and Muscular Control of the Human Extensor Digitorum Muscle"

Tara L. McIsaac, Ph.D. (2006) Graduate Program in Neuroscience, University of Arizona "Neural Mechanisms Underlying Muscle Synergies Involved in the Control of the Human Hand"

Patrick L. Marcus, Ph.D. (2006) Graduate Program In Biomedical Engineering, University of Arizona "Electrotactile Feedback System Using Psychophysical Mapping Functions"

Chad V. Anderson, Ph.D. (2007) Electrical and Computing Engineering, University of Arizona, "Probabalistic Control: Implications for the Development of Upper Limb Neuroprosthetics"

Marco A. Herrera-Valdez, Ph.D. (2008) Physiological Sciences, University of Arizona, "Relationship between nearly coincident spiking and common excitatory input in motor neurons."

Lise A. Johnson, Ph.D. (2010) Biomedical Engineering, University of Arizona, "Decoding electric fields of the nervous system: investigations of information storage and transfer in the central and peripheral nervous system"

Ann R. Revill, Ph.D. (2011) Physiological Sciences, University of Arizona "Role of synaptic and non-synaptic mechanisms underlying motor neuron control."

Advising/Mentoring Graduate Students

Elizabeth Peters (1996 – 1998) masters program, Physiological Sciences
David Schach (1996 – 1999) masters program, Physiological Sciences
Tara Robinson (1997-1999) masters program, Physiological Sciences
Chandelle Rose (1998-2000) masters program, Physiological Sciences
Greg Hockensmith (1998-2000) masters program, Physiological Sciences
Heather Siefert (1999-2001) masters program, Biomedical Engineering
Douglas Keen (1997-2002) doctoral program, Physiological Sciences
Tara McIsaac (2000 – 2006) doctoral program, Neuroscience
Patrick Marcus (2001 – 2006) doctoral program, Biomedical Engineering
Chad Anderson (2001 – 2007) doctoral program, Electrical and Computing Engineering
Richard Johns (2002 – 2006) doctoral program, Physiological Sciences
Ann Revill (2006-2011) doctoral program, Physiological Sciences
Hilary Wakefield (2007-2011 doctoral program, Physiological Sciences

Marco Herrera-Valdez (2007-2008) doctoral program, Physiological Sciences

Lise Johnson (2008-2010) doctoral program, Biomedical Engineering

Alie Buckmire (2010-2011) masters program, Physiological Sciences

Alie Buckmire (2011-2016) doctoral program, Neuroscience

M.J. Rameriz (2013-2014) masters program, Physiological Sciences

Jacob Cena (2013-2014) masters program, Biomedical Engineering

Shaun Tay (2015-2016) masters program, Physiological Sciences

Tapas Ararkeri (2015-2016) masters program, Biomedical Engineering

Advising/Mentoring Undergraduate Research

Kimmey Hardesty (2000-2001) – Undergraduate Biology Research Program

Andrea Neary Dutoit (2000-2001) – Honors Thesis, Physiological Sciences

Brook Tlougan (2001-2002) - Honors Thesis, Physiological Sciences

Luisa Gonenberg (2001-2002) – Undergraduate Biology Research Program

Monique Leon (2001-2002) – Honors Thesis, Physiology and Molecular & Cell Biology

Heather Nicolls (2002) – Independent Study, Physiology

Michael Hopson (2002) – Independent Study, Physiology

Fred Buckhold (2002) – Independent Study, Physiology

Michelle Prior (2003) – Independent Study, Physiology

Nicole Mah (2003) - Independent Study, Physiology

Rachit Kumar (2003-2004) – Honors Thesis, Physiology

Cynthea Carter (2004) – Independent Study, Physiology

Ann Floyd (2004) – Independent Study, Physiology

Stephanie Gilbert (2004) – Independent Study, non-degree student

Sibeso Namakando (2005) – Independent Study, Physiology

Lauren Jacobsen (2008) – Independent Study, Physiology

Valarie Dean (2009-2010) – Honors Thesis, Physiology

Connie Leung (2010) – Independent Study, Physiology

Julianne Kmetzo (2010-2011) – Honors Thesis, Psychology

Danielle Lockwood (2011-2013) – Biomedical Engineering

Whitney Burns (2011) – Physiology

Donovan Lockwood (2011-2012) - Flinn Scholar Mentor

Hayley Kiernan (2012-2013) - Physiology

Alina Sironen (2012-2013) - Physiology

Matthew Fritzie (2012-2013) - Biomedical Engineering

Pareena Kaur (2014-2016) - Physiology

Harrison Stovall (2014-2015) – Biomedical Engineering

Anshula Prasad (2015) – Physiology

Chloe Larkin (2016) – Physiology

Tesneem Jalal Tamimi (2016) - Physiology

Daniel Macias (2016-2017) – Molecular & Cellular Biology

Doctoral Dissertation Committee Member (non-supervisory role)

Cole Galloway (Physiological Sciences)

George Hornby (Physiological Sciences)

Arthur Lo (Applied Math)

Davide Dulcis (Neuroscience)

Tyson Kinnick (Physiological Sciences)

Karen Sweazea (Physiological Sciences)

Connie Kientz (Speech & Hearing Sciences)

Marsha Penner (Neuroscience)

Michelle Cuicci (Speech & Hearing Sciences)

Donald Gates (Physiological Sciences)

Brooke McGuire (Biomedical Engineering)

Paul Greenberg (Psychology)

Kevin Spitler (Neuroscience)

Jill Roberts (Neuroscience)

Marco Herrera (Physiological Sciences)

Jason Worrell (Physiological Sciences)

Christopher Theal (Neuroscience)

Tracy Perry (Music)

Adam Baker (Linguistics)

Trevor Cardinal (Physiological Sciences)

Erin McKiernan (Physiological Sciences)

Timothy Elmore (Cognitive Science)

Stephen Moore (Biomedical Engineering)

Jen Throne Schaefer (Physiological Sciences)

Lise Johnson (Neuroscience)

Christopher Laine (Physiological Sciences)

Subha Srinivasan (Physiological Sciences)

Kyle Flann (Physiological Sciences)

Brian Monson (Speech & Hearing Sciences)

Zanetta Navratolova (Neuroscience)

Amy Lederle (Speech & Hearing Sciences)

Robin Samlan (Speech & Hearing Sciences)

Stuti Jaiswal (Neuroscience)

Alex Thome (Neuroscience)

Don Gates (Physiological Sciences)

Earlphia Sells (Molecular and Cellular Biology)

Greg Powell (Physiological Sciences)

Lilian Patron (Neuroscience)

Sarah MacNamee (Neuroscience)

Clayton Mosher (Neuroscience)

Jennifer Vranish (Physiological Sciences)

Reece Mazade (Physiological Sciences)

Philip Putnam (Neuroscience)

Rebekah Keating (Neuroscience)

JJ Morrow (Neuroscience)

Jean-Paul Wigand (Neuroscience)

Kim Neeley (Speech Language and Hearing Sciences)

Masters Project Committee Member (non-supervisory role)

Anthony Peth (Physiological Sciences)

Paige Holm (Physiological Sciences)

Tyson Kinnick (Physiological Sciences)

Stephanie Russ (Physiological Sciences)

Ryan Donnely (Physiological Sciences)

Corina Brack (Physiological Sciences)

O.C Franck (Physiological Sciences)

Kelly Brooks (Physiological Sciences)

Jennifer Huang (Physiological Sciences)

Stephanie Gilbert (Physiological Sciences)

Ann Floyd (Physiological Sciences)

Earlphia Sells (Physiological Sciences)

Nizhoni Denipah (Physiological Sciences)

Mary Adde (Physiological Sciences)

Lora Pittman (Physiological Sciences)

Sabina Satpathi (Physiological Sciences)

Candice North (Physiological Sciences)

Leslie Zuniga (Physiological Sciences

Amber Rice (Physiological Sciences)

Patrick Richardson (Physiological Sciences)

Alaina Glatting (Physiological Sciences)

Laurel Watkins (Neuroscience)

Andrew Flores (Physiological Sciences)

Christopher Love (Biomedical Engineering)

Dan Hill (Physiological Sciences)

Technical Training for Visiting Scholars

Kirkwood Personius, Ph.D., University of Pennsylvania, April 15-20, 1999

Derek Kamper, Ph.D., Northwestern University, April 20 – May 9, 1999

Alex Ng, Ph.D., University of California San Francisco, September 20-27, 1999

Marco Santello, Ph.D., Arizona State University, September, 2000

George Hornby, Ph.D., Northwestern University, February 2001

Francisco Vega, M.D., Ph.D., Johns Hopkins University, June 2002

Michael Nordstrom, Ph.D., Adelaide University, December 7 – 18, 2002

Pedram Afshar, M.D., Carnegie Mellon University, November 4-5, 2004

Bridget Waller, Portsmouth University, UK, November 13 – 20, 2004

Sarah-Jane Vick, Ph.D. Sterling University, UK, November 13 – 20, 2004

Lisa Parr, Ph.D., Emory University, November 13 – 20, 2004

Michael Nordstrom, Ph.D., University of Adelaide, Jan 2007 – July 2007

Parveen Bawa, Ph.D., Simon Fraser University, Nov 2007 – Jan 2008

Penelope McNulty, Ph.D., University of Sydney, November 8 – 25, 2007

Hiske van Duinen, Ph.D., Prince of Wales Medical Research Institute, May 9-June 30, 2009

James Potvin, PhD, McMaster University, June 20 – July 6, 2013

External Examiner for Doctoral Dissertation or Comprehensive Examination

Anne M. Taylor, University of Colorado (2000-2003)

Paul M. Kennedy, University of British Columbia (2004)

Kevin Terry, University of Texas at Austin (2007)

Peter G. Martin, University of New South Wales (2007)

Trisha Kesar, University of Delaware (2009)

Wei Shin Yu, University of New South Wales (2009)
Francesco Negro, Aalborg University, Denmark, (2011)
Chandan Kalra, University of Sydney (2014)
Luke Kelly, University of Queensland (2014)
Francesco Petrini, University of Rome, Biomedical Campus (2015)
Lara McManus, University College Dublin (2016)

Lara McManus, University College Dublin (2016) Michael Leitch, University of Western Sydney (2016)

Research Grants Awarded

Multitask assessment of motor unit fatigue	NIH R29AR42893	1995-2000
A.J. Fuglevand, P.I., \$561,628		
Neural and muscular control of finger movements	NIH 5R01 NS39489	2000-2004
A.J. Fuglevand, P.I., \$460,168		
Neural and muscular control of finger movements	NIH 2R01 NS39489	2004-2008
A.J. Fuglevand, P.I., \$904,500		
Restoration of limb movement using probabilistic	BIO5	2004-2005
control of functional electrical stimulation		
A.J. Fuglevand, PI, \$50,000		
Probabilistic Control of Functional Electrical Stimulation	NIH R21NS061146	2008-2011
A.J. Fuglevand, P.I., \$457,109		
Synaptic Integration in Motor Neurons	NIH 1R56NS070897	2011-2012
A.J. Fuglevand, PI, \$337,500		
Physiological Significance of Persistent	NIH R01NS079147	2013-2017
Inward Currents in Motor Neurons		
AJ Fuglevand, PI \$575,976		
Machine-Learning Based Control of Functional	NIH R56NS096064	2017-2018
Electrical Stimulation		
A.J. Fuglevand, PI \$371,219		
University of Arizona Bridge Funding Award	AHSC	2017-2018
A.J. Fuglevand, PI \$72,000		
The Role of The Amygdala in Affective and	NIH R01 MH115681	pending
Social Touch		
A.J. Fuglevand, Co-Investigator \$2,244,684		
Machine-Learning Based Control of Functional	NIH R01 NS102259	pending (13%)
Electrical Stimulation		
A.J. Fuglevand, PI \$ 2,306,100		

Professional Organizations and Assignments

Membership in National Societies

Society for Neuroscience

Guest Referee for Scientific Journals

Journal of Neuroscience Journal of Applied Physiology
Journal of Neurophysiology Experimental Brain Research
Journal of Physiology Journal of Psychophysiology

Motor Control

Neuroscience Letters Neurobiology of Aging

Muscle & Nerve

IEEE Transactions Biomedical Engineering Encyclopedia of Biomedical Engineering Journal of Computation Neuroscience

Spinal Cord

Frontiers in Neuroscience

Experimental Physiology

Canadian Journal of Applied Physiology

Journal of Gerontology

Annals of Biomedical Engineering Journal of Neuroscience Methods Journal of Neural Engineering

Current Biology

Medical Engineering & Physics

Grant Reviews

Ad Hoc Reviewer for National Sciences and Engineering Research Council of Canada 2000-2006

Ad Hoc Reviewer for Gaylord Research Institute

Ad Hoc Reviewer for NIH Geriatrics and Rehabilitation Medicine Study Section, 2003

Ad Hoc Reviewer for Canadian Institutes of Health Research, 2003

Ad Hoc Reviewer for Yale Core Center for Musculoskeletal Disorders, 2003

Merit Review Board, Rehabilitation Research, Department of Veterans Affairs, 2003

Ad Hoc, Musculoskeletal Rehabilitation Science Study Section, NIH, 2004

Ad Hoc Natural Sciences and Engineering Research Council of Canada (NSERC) 2006

Ad Hoc Special Emphasis Panel/Scientific Review Group NIH, NSD-C 2006, 2012

Ad Hoc, Musculoskeletal Rehabilitation Science Study Section, NIH, 2006-2007

Member, Musculoskeletal Rehabilitation Science Study Section, NIH, 2007-2011

Ad Hoc, Merit Review Board, Department of Veterans Affairs, 2011

Ad Hoc, Special Emphasis Panels, NIH 2011-2016

Ad Hoc, Pre- and Postdoctoral Fellowship, Neuroscience, NIH, 2012-2013

Ad Hoc, Motor Function and Speech Rehabilitation, NIH, 2015

Ad Hoc, Musculoskeletal Rehabilitation Sciences, NIH, 2015-2016

Ad Hoc, BRAIN Initiative: Next-Generation Invasive Devices for Recording and Modulation in the Human Central Nervous System, NIH 2016

Ad Hoc, Exploratory Clinical Trials, NIH, 2017

Ad Hoc, Special Emphasis Panel/R21 Trail Blazer Program, NIH 2017

Editorial Assignments

Associate Editor, Journal of Neurophysiology (2012-2014)

Section Editor, Comprehensive Physiology (2014-2016)

Editorial Board, Journal of Neurophysiology (2014 – present)

Associate Editor, Neuroscience Letters (2004 – present)

Other Professional Activities

Presentations:

Invited Presentations

American College of Sports Medicine

Symposium: Adaptive Properties

of the Sensorimotor System

Seattle, WA

1993

Second World Congress of Biomechanics Symposium: Modeling the	Amsterdam, The Netherlands	1994
Neuromuscular System Neural and Neuromuscular Aspects of Muscle Fatigue	Miami, FL	1994
New England American College of Sports Medicine Annual Meeting	Boxborough, MA	1994
Experimental Biology Cellular and Molecular Signals	Atlanta, GE	1995
Governing Energy Transduction During Exercise		
Gaylord Hospital Research Institute Current Issues in Rehabilitation Research	Wallingford, CT	1995
Canadian Society for Exercise Physiology Issues in Exercise Neuroscience	Toronto, ONT	1997
European Community Master's of Biology Short Course: Neuromuscular Performance Advanced Research Methods	Leuven, Belgium	1998
Plateau Potentials and the Repetitive Discharge of Motoneurons	Boulder, CO	2000
Neural Control of Movement Motoneurons and Muscles: the Output Machinery	Naples, FL Groningen, The Netherlands	2002 2002
Movement Analysis and Therapy After Central Nervous Damage	Sicily, Italy	2003
University of Waterloo, Summer Neural Control Of Movement Course	Waterloo, Canada	2004
Active Dendrites in Motor Neurons	Boulder, CO	2004
Motor Control	Darwin, Australia	2007
Neural Interfaces Conference	Cleveland, OH	2008
Mechanisms of Plasticity and Disease in Motoneurons	Seattle, WA	2008
Brain Sciences Symposium (Keynote Address)	Sydney, Australia	2008
Towards Translational Research In Motoneurons	Paris, France	2010
The Motor Unit. Polish Academy of Sciences	Warsaw, Poland	2011
Human Hand Function, Oxford University	Oxford, UK	2011
International Society of Electromyography & Kinesiology (Keynote Lecture)	Brisbane, Australia	2012
Motorneurons and Beyond	Sydney, Australia Halifax, Canada	2012 2014
International Motoneuron Society Polish Neuroscience Society (Plenary Lecture)	Gdansk, Poland	2014
Presentations at Interna	tional Congresses	
International Society of Biomechanics	Umeå, Sweden	1986
IEEE Engineering in Medicine & Biology	Seattle, WA	1989

Society 11th International C	-		
Society 11th International Co		Mantanal Canada	1001
Third International Brain Research (-	Montreal, Canada	1991
World Congress of Neurosci		A at a d a	1002
Current Problems of Neuromuscular	rangue	Amsterdam, The Netherlands	1992
I 10 (F1 1	. 1 0		2012
International Society of Electrophys	iology &	Brisbane, Australia	2012
Kinesiology	• 1 0	Ci · · · · · ·	2016
International Society of Electrophys	iology &	Chicago, IL	2016
Kinesiology			
Dussautations	4 Ammy al Ma at	in as of National Conjution	
<u>Presentations a</u>	t Annual Meet	ings of National Societies	
Society for Neuroscience		Phoenix, Arizona	1989
Society for Neuroscience		St. Louis, Missouri	1990
American Society of Biomechanics		Miami, Florida	1990
Society for Neuroscience		New Orleans, Louisiana	1991
Society for Neuroscience		Washington, D.C.	1993
Society for Neuroscience		Miami, Florida	1994
Society for Neuroscience		San Diego	1995
Society for Neuroscience		Washington, D.C.	1996
Society for Neuroscience		New Orleans, Louisiana	1997
Society for Neuroscience		Los Angeles, California	1998
Society for Neuroscience		Miami, Florida	1999
Society for Neuroscience		New Orleans, Louisiana	2000
Society for Neuroscience		San Diego, California	2001
Society for Neuroscience		New Orleans, Louisiana	2003
Society for Neuroscience		San Diego, California	2004
Society for Neuroscience		Washington, D.C.	2005
Society for Neuroscience		Atlanta, Georgia	2006
Society for Neuroscience		San Diego, California	2007
Society for Neuroscience		Washington, DC	2007
			2008
Society for Neuroscience		Chicago, Illinois	2009
Society for Neuroscience		San Diego, California	
Society for Neuroscience		New Orleans, Louisiana	2012
Society for Neuroscience		Washington, DC	2014
Society for Neuroscience		Washington, DC	2017
Seminars at Universities and Institutes			
University of Waterloo	Waterloo Or	ntario, Canada	1985-1989
University of Arizona	Tucson, Ariz		1989-1992
John B. Pierce Laboratory	New Haven,		1989-1992
Yale University	New Haven,		1992-1993
University of Massachusetts	Amherst, Ma		1993
Boston University	Boston, Mass		1993
<u>•</u>			1994 1995
University of Colorado Cleveland Clinic	Boulder, Col		1995
Cieverand Chine	Cleveland, O	VIIIO	1773

Ohio University	Athens, Ohio	1995
University of Arizona	Tucson, Arizona	1996-1998
University of Colorado	Boulder, Colorado	1997
University of Edinburgh	Edinburgh, Scotland	1998
Oregon Health Sciences University	Portland, Oregon	1998
Arizona State University	Tempe, Arizona	2000
University of Colorado	Boulder, Colorado	2000
Rehabilitation Institute of Chicago	Chicago, Illinois	2002
Johns Hopkins University	Baltimore, MD	2002
Marquette University	Milwaukee, WI	2006
University of Delaware	Newark, DE	2007
Université Paul-Sabatier	Toulouse, France	2007
University of British Columbia	Vancouver, Canada	2008
McMaster University	Hamilton, Canada	2009
University of Newcastle	Newcastle, Australia	2010
University of Lethbridge	Lethbridge, Canada	2011
Pazmany Peter University	Budapest, Hungary	2011
Georgia Institute of Technology	Atlanta, Georgia	2012
University of Missouri	Columbia, MO	2013
University of Oregon	Eugene, OR	2014
Poznan University	Poznan, Poland	2015
University of Colorado	Boulder, CO	2017

Publications

A. Manuscripts Published in Refereed Journals

- A1. Fuglevand, A.J. (1987). Resultant muscle torque, angular velocity, and joint angle relationships and activation patterns in maximal knee extension. In Jonsson, B (Ed.), **Biomechanics X-A**, Champaign, IL: Human Kinetics, pp. 559-566.
- A2. Munro, C.F., Miller, D.I., Fuglevand, A.J. (1987). Ground reaction forces in running: a reexamination. **Journal of Biomechanics**, 20: 147-155.
- A3. Nordstrom, M.A., Fuglevand, A.J., & Enoka, R.M. (1992). Estimating the strength of common input to motoneurons from the cross-correlogram. **Journal of Physiology (Lond.)**, 453: 547-574.
- A4. Fuglevand, A.J., Winter, D.A., Patla, A.E., & Stashuk, D. (1992). Detection of motor unit action potentials with surface electrodes: influence of electrode size and spacing. **Biological Cybernetics**, 67: 143 153.
- A5. Fuglevand, A.J., Zackowski, K.M., Huey, K.A., & Enoka, R.M. (1993). Impairment of neuromuscular propagation during human fatiguing contractions at submaximal forces. **Journal of Physiology (Lond.)**, 460: 549-572.

- A6. Galganski, M.E., Fuglevand, A.J., & Enoka, R.M. (1993). Reduced control of motor output in a human hand muscle of elderly subjects during submaximal contractions. **Journal of Neurophysiology**, 69: 2108-2115.
- A7. Fuglevand, A.J., Winter, D.A., & Patla, A.E. (1993). Models of recruitment and rate coding organization in motor unit pools. **Journal of Neurophysiology** . 70: 2470-2488
- A8. Winter, D.A., Fuglevand, A.J., & Archer, S. (1994) Crosstalk in surface electromyography: theoretical and practical estimates. **Journal of Electromyography and Kinesiology**, 4: 15-26.
- A9. Fuglevand, A.J., Bilodeau, M., & Enoka, R.M. (1995). Short-term immobilization has a minimal effect on the strength and fatigability of a human hand muscle. **Journal of Applied Physiology**, 78: 847-855.
- A10. Howell, J.N., Fuglevand, A.J., Walsh, M.L., Bigland-Ritchie, B. (1995). Motor unit activity during isometric and concentric-eccentric contractions of human first dorsal interosseus muscle. **Journal of Neurophysiology**, 74: 901-904.
- A11. Yue, G., Fuglevand, A.J., Nordstrom, M.A., & Enoka, R.M (1995). Limitations of the surface-EMG technique for estimating motor unit synchronization. **Biological Cybernetics**, 73: 223-233..
- A12. Fuglevand, A.J. (1995). The role of the sarcolemma action potential in fatigue. **Advances in Experimental Medicine and Biology**, 384: 101-108.
- A13. Macefield V.G., Fuglevand A.J., Bigland-Ritchie B. (1996). Contractile properties of single motor units in human toe extensors assessed by intraneural motor-axon stimulation. **Journal of Neurophysiology**, 75: 2509-2519.
- A14. Fuglevand A. J. (1996). Neural aspects of fatigue. **The Neuroscientist**, 2: 203-206.
- A15. Fuglevand, A.J., Segal, S.S (1997). Simulation of motor unit recruitment and microvascular unit perfusion: spatial considerations. **Journal of Applied Physiology**, 83:1223-1234, 1997.
- A16. Bigland-Ritchie, B., Fuglevand, A.J., and Thomas, C.K.(1998). Contractile properties of human motor units: is man a cat? **The Neuroscientist**, 4: 240-249.
- A17. Fuglevand, A.J., Macefield, V.G., & Bigland-Ritchie, B. (1999). Force-frequency and fatigue properties of motor units in muscles that control digits of the human hand. **Journal of Neurophysiology**, 81: 1718-1729.

- A18. Peters, E.J.D. and Fuglevand, A.J. (1999). Cessation of human motor unit discharge during sustained maximal voluntary contraction. **Neuroscience Letters**, 274: 66-70.
- A19. Yao, W., Fuglevand, A.J., and Enoka, R.M. (2000). Motor unit synchronization increases EMG amplitude and decreases force steadiness in simulated contractions. **Journal of Neurophysiology**, 83: 441-452.
- A20. Macefield, V.G., Fuglevand, A.J., Howell, J.N., Bigland-Ritchie, B. (2000) Discharge behavior of single motor units during maximal voluntary contractions of a human toe extensor. **Journal of Physiology (Lond.)**, 528: 227-234.
- A21. Enoka, R.M., and Fuglevand, A.J. (2001). Motor unit physiology: some unresolved issues. **Muscle and Nerve**, 24: 4 17.
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