

Lynette A. Jones

Senior Research Scientist
Department of Mechanical Engineering, MIT

Education

B.A.	University of Auckland, New Zealand	1976
M.A.	University of Auckland, New Zealand	1978
Ph.D.	McGill University, Canada	1983
Postdoctoral fellow	Montreal Neurological Institute	1983-1986

Professional Employment

Senior Research Scientist, Department of Mechanical Engineering, MIT	2010-
Principal Research Scientist, Department of Mechanical Engineering, MIT	1994-2010
Adjunct Professor, Department of Surgery, McGill University	1994-1999
Associate Professor (with tenure), School of Physical and Occupational Therapy, McGill University	1991-1994
Research Associate, Department of Biomedical Engineering, McGill University	1990-1994
Associate Member, Department of Neurology and Neurosurgery, McGill University	1986-1994
Assistant Professor, School of Physical and Occupational Therapy, McGill University	1986-1991

Membership of Editorial Boards

2014-	Editor-in-chief, IEEE Transactions on Haptics
2010-2013	Associate editor-in-chief, IEEE Transactions on Haptics
2008-2011	Editor-in-chief, World Haptics Conference Editorial Board
2008-2010	Associate editor, IEEE Transactions on Haptics
2006-	Associate editor, Presence, teleoperators and virtual environments
1992-2006	Presence, teleoperators and virtual environments
1999-	Haptics-e
1994-2001	Journal of Motor Behavior

Membership of Conference Committees

2016	Advisory Board, Asia Haptics
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2016	Awards Committee, Eurohaptics
2016	Awards Committee, IEEE Haptics Symposium
2014	International Advisory Committee, Eurohaptics
2013	Chair, Awards Committee, World Haptics Conference
2007-2012	International Program Committee, Eurohaptics
2007-2012	Program Committee, IEEE Computer Society Symposium on Haptic Interfaces for Virtual Environments and Teleoperator Systems
2006-2007	Program Co-Chair, IEEE World Haptics Conference
2005-2006	Program Committee, Eurohaptics Conference
2004-2005	Program Co-Chair, IEEE World Haptics Conferenc
2002-2004	Program Committee, IEEE Computer Society Symposium on Haptic Interfaces for Virtual Environments and Teleoperator Systems
2001-2002	Symposium co-organizer, IEEE Computer Society Symposium on Haptic Interfaces for Virtual Environments and Teleoperator Systems
1998-2001	Symposium co-organizer, ASME Haptic Interfaces for Virtual Environments and Teleoperator Systems

Membership of National Committees

1998-2002	Committee on Space Biology and Medicine, Space Studies Board, National Research Council
2001-2002	Task Group on the International Space Station, National Research Council

Membership of Professional Societies

American Association for the Advancement of Science, Member

IEEE, Senior Member

Society for Neuroscience, Member

Recent Journal Publications

Parker, M., Jones, L.A., Hunter, I., Taberner, A., Nash, M. & Nielsen, P. (2017). Multidirectional *in vivo* characterization of skin using Wiener nonlinear stochastic system identification techniques. **Journal of Biomechanical Engineering**, **139**, 011004-1-011004-11.

Jones, L. A. (2016). Perspectives on the evolution of tactile, haptic and thermal displays. **Presence**, **25**, 247-252.

- Hogan, N.C., Taberner, A.J., Jones, L.A. and Hunter, I.W. (2015). Needle-free delivery of macromolecules through the skin using controllable jet injectors. **Expert Opinion on Drug Delivery**, 12 (10).
- Jones, L.A. & Smith, A.M. (2014). Tactile sensory system: Encoding from the periphery to the cortex. **WIREs Systems Biology and Medicine**, 6, 279-287.
- Azadi, M. & Jones, L.A. (2014). Evaluating vibrotactile dimensions for the design of tactons. **IEEE Transactions on Haptics**, 7, 14-23.
- Jones, L.A. & Tan, H.Z. (2013). Application of psychophysical techniques to haptic research. **IEEE Transactions on Haptics**, 6, 268-284.
- Sofia, K.O. & Jones, L.A. (2013). Mechanical and psychophysical studies of surface wave propagation during vibrotactile stimulation. **IEEE Transactions on Haptics**, 6, 320-329.
- Sandford, E., Chen, Y., Hunter, I, Hillebrand, G., & Jones, L. (2013). Capturing skin properties from dynamic mechanical analyses. **Skin Research and Technology**, 19, e339-e348.
- Hemond, B., Hunter, I.W., Hughey, B.J., & Jones, L.A. (2012). MICA: An innovative approach to remote data acquisition. **IEEE Instrumentation and Measurement Magazine**, 15, 22-27.
- Jones, L.A. (2011). Tactile communication systems: Optimizing the display of information. **Progress in Brain Research**, 192, 113-128.
- Lederman, S.J. & Jones, L.A. (2011). Tactile and haptic illusions. **IEEE Transactions on Haptics**, 4, 273-294.
- Galie, J. & Jones, L.A. (2010). Thermal cues and the perception of force. **Experimental Brain Research**, 200, 81-90.
- Yang, G., Kwon, D., & Jones, L.A. (2009). Spatial acuity and summation on the hand: The role of thermal cues in material discrimination. **Attention, Perception & Psychophysics**, 71, 156-163.
- Jones, L.A., Kunkel, J. & Piatetski, E. (2009). Vibrotactile pattern recognition on the arm and back. **Perception**, 38, 52-68.
- Jones, L.A. & Held, D.A. (2008). Characterization of tactors used in vibrotactile displays. **Journal of Computing and Information Sciences in Engineering**, 8, 044501-1 - 044501-5.
- Jones, L.A. & Ho, H-N., (2008). Warm or cool, large or small? The challenge of thermal displays. **IEEE Transactions on Haptics**, 1, 53-70.
- Ho, H. & Jones, L.A. (2008). Modeling the thermal responses of the skin surface during hand-object interactions. **Journal of Biomechanical Engineering**, 130, 21005-1 - 21005-8.
- Jones, L.A. & Sarter, N. (2008). Tactile displays: Guidance for their design and application. **Human Factors**, 50, 90-111.
- Yang, G., Jones, L.A., & Kwon, D. (2008) Use of simulated thermal cues for material discrimination and identification with a multi-fingered display. **Presence**, 17, 29-42.

Ho, H. & Jones, L.A. (2007). Development and evaluation of a thermal display for material identification and discrimination. **ACM Transactions on Applied Perception**, 4, 1-24.

Jones, L.A., Lockyer, B., & Piatetski, E. (2006). Tactile display and vibrotactile recognition on the torso. **Advanced Robotics**, 20, 1359-1374.

Ho, H. & Jones, L.A. (2006). Contribution of thermal cues to material discrimination and localization. **Perception & Psychophysics**, 68, 118-128.

Jones, L.A. & Piatetski, E. (2006). Contribution of tactile feedback from the hand to the perception of force. **Experimental Brain Research**, 168, 298-302.

Jones, L.A. & Lederman, S.J. (2006). **Human hand function**. New York: Oxford University Press.

Patents

Galiana, H.L., Hunter, I.W., Jones, L.A., & Tangorra, J. "Apparatus and method for measuring vestibular ocular reflex function." Patent number: 5,942,954. Issued: 8/24/99

Galiana, H.L., Hunter, I.W., Jones, L.A., & Tangorra, J. "Drowsiness/Alertness Monitor" Patent number: 6,091,334. Issued: 7/18/00

Hunter, I.W., Chen, Y., Jones, L.A. & Hogan, N.C. "Identification techniques and device for testing the efficacy of beauty care products and cosmetics" Patent number: 9,265,461 Issued 2/23/2016