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Birth Date: 5/14/55

Postdoctoral Education:

June, 1999 Stanford Informatics Short-Course,
Stanford University, Palo Alto, CA

1989 - 1990 Fellowship in Foot and Ankle Surgery, Director: Melvin Jahss, M.D.;
Hospital for Joint Disease - Orthopaedic Institute, New York

1983 - 1987 Orthopaedic Residency, Department of Orthopaedic Surgery
Hospital of the University of Pennsylvania

1982 - 1983 Internship, Department of General Surgery
Hospital of the University of Pennsylvania

Medical Education:

1978 - 1982 Yale University School of Medicine
New Haven, Connecticut

Premedical Education:

1973 - 1977 Harvard College
(A.B.; Engineering and Applied Physics)

1969 - 1973 High School - Baltimore Polytechnic Institute

Academic Appointments:

Professor, Orthopaedics and Rehabilitation, University of Vermont College of Medicine, January 2007 – present.

Medical Informaticist, Fletcher Allen Health Care Electronic Medical Record System (PRISM), October, 2007 – May, 2011.

Program Co-Director, Orthopaedic Surgery Residency Training Program, University of Vermont College of Medicine, July 2007 – June 2009.

Professor, Orthopaedic Surgery, The George Washington University School of Medicine and Health Sciences, March 2002 – December 2006.

Director of Clinical Informatics, The George Washington University School of Medicine and Health Sciences, March 2002 – December 2006.

Director, Simulation Center, Clinical Learning and Surgical Skills Center, George Washington University School of Medicine and Health Sciences, March, 2002 – December 2006

Professor, Orthopaedics and Rehabilitation, University of Vermont College of Medicine, September, 2000 - March, 2002

Medical Informatics Specialist, Fletcher Allen Health Care, Department of Information Technology, September, 2000 - March 2002

Associate Professor of Orthopaedic Surgery, The Johns Hopkins University School of Medicine; January, 1993 - present.

Director, Orthopaedic Foot and Ankle Fellowship, Department of Orthopaedic Surgery, The Johns Hopkins University School of Medicine, March, 1996 - August, 2000.

Director, Foot and Ankle Service, The Johns Hopkins Hospital; April, 1990 - August, 2000.

Vice-Chairman and Associate Director, Department of Orthopaedic Surgery, The Johns Hopkins University School of Medicine; April, 1995 - March, 1998.

Vice-Chairman for Education, Department of Orthopaedic Surgery, The Johns Hopkins University School of Medicine; July, 1992 - April, 1995.

Program Director, Orthopaedic Surgery Residency Training Program, The Johns Hopkins University School of Medicine; April, 1990 - June, 1995.

Orthopaedic Consultant to the Neuromuscular Diseases Clinic, The Johns Hopkins Hospital; Sept., 1991 - 2000.

Active Staff, Orthopaedic Surgery, The Johns Hopkins Hospital, July, 1987 - August, 2000.

Director, The Johns Hopkins Hospital Fracture Clinic; July, 1987 - July, 1993.

Assistant Professor of Orthopaedic Surgery, The Johns Hopkins University School of Medicine; July 1987 - December, 1992.

Chief, Orthopaedic Surgery Section, Veteran's Administration Hospital, Loch Raven, Baltimore, Md.; July, 1987 - July, 1992.

Board Certification:

1989 Diplomate of the American Board of Orthopaedic Surgery

1999, 2012 Diplomate of the American Board of Orthopaedic Surgery, re-certification

Licensure:

District of Columbia, May, 2002; 33656
Vermont, September, 2000; 42-0010122
Maryland, June, 1987; D35232
DEA, AM2597132

Honors and Awards:

Busy Beaver Award (for the most diligent Junior Resident taking weekend call), University of Vermont
Department of Orthopaedics and Rehabilitation, November, 2013.

Leonard Goldner Research Award, The American Orthopaedic Foot & Ankle Society, 2007

American Orthopaedic Association Austrian-Swiss-German Traveling Fellowship, 2002.

Teacher of the Year, Johns Hopkins University School of Medicine Department of Orthopaedic Surgery,
1997-98.

Computerworld-Smithsonian Award for Technology, awarded to the Johns Hopkins Electronic Patient
Record Development Group, 1997.

Humana Award for Research, American Orthopaedic Foot and Ankle Society; 1990.

Citation by the Journal of the American Medical Association (JAMA) for the Most Significant Journal
Article published from the Johns Hopkins Department of Orthopaedic Surgery in Hopkins' First
100 Years, 1989.

Upjohn Young Investigator Award, 1988.

Young Investigator Award, Gordon Research Conference on Biomechanics and Orthopaedic Sciences,
1988.

Kappa Delta Award; Bioelectric Repair and Growth Society; Kyoto, Japan; 1984.

Journal Club Award; Dept. of Orthopaedic Surgery, Hospital of the Univ. of Pennsylvania, 1985.

Alpha Omega Alpha Medical Honor Society, Yale Chapter, elected 1982.

Louis H. Nahum Prize for Outstanding Thesis, Yale Univ. School of Medicine; 1982.

Yale Univ. School of Medicine Merck Book Award for Scholastic Achievement; 1982.

A.B. (Engineering and Applied Physics), Magna Cum Laude, Harvard College, 1977.

Bibliography:**Papers:**

1. Drachman, D.B.; Angus, C.Wm.; Adams, R.N.; **Michelson, J.D.**; and Hoffman, G.J.: Myasthenic Antibodies Cross-link Acetylcholine Receptors to Accelerate Degradation. New Eng. J. Med., 298:1116-22, 1978.
2. **Michelson, J.D.**: Characterization and Functional Analysis of Immuno-regulatory Cells in Murine Bone Marrow. Thesis, Yale Univ. School of Medicine, 1982.

3. **Michelson, J.D.**; and Cohen, A.: Incidence and Treatment of Fractures in Thalassemia. *J. Ortho Trauma* 2:29-32, 1988.
4. **Michelson, J.D.**; Lotke, P.A.; Steinberg, M.E.: Urinary-Bladder Management After Total Joint-Replacement Surgery. *New Eng J Med* 319:321-326, 1988.
5. **Michelson, J.D.**; and Horowitz, M.C.: The Interaction Between Bone Marrow Immune Suppression and Hematopoiesis. *Exp Hematol.* 16:815-819, 1988.
6. Friedenberg, Z.B.; Brighton, C.T.; **Michelson, J.D.**; Bednar, J.; and Schmidt, R.: The Effects of Demineralized Bone Matrix and Direct Current on an "In Vivo" Culture of Bone Marrow Cells. *J Ortho Res* 7:22-27, 1989.
7. Clarke, H.J.; Jinnah, R. H.; Brooker, A.F.; **Michelson, J.D.**: Total Hip Replacement in Sickle Cell Anaemia. *J Bone Joint Surg.* 71(B):465-470, 1989.
8. **Michelson, J.D.**; Riley, L.H. Jr.: Considerations for the Implantation of Cemented and Cementless Total Hip Prostheses. *J. Arthroplasty* 4:327-334, 1989.
9. **Michelson, J.D.**; Clarke, H.J.; Jinnah, R.H.: The Effect of Loading on the Tibio-talar Alignment in Cadaver Ankles. *Foot & Ankle* 10:280-284, 1990.
10. Magid, D.; **Michelson, J.D.**; Ney, D.R.; Fishman, E.K.: Adult Ankle Fractures: Comparison of Plain Films and Interactive Two- and Three-Dimensional CT. *J. Roentg.* 154:1017-1023, 1990.
11. Clarke, H.J.; **Michelson, J.D.**; Jinnah, R.H.: Tibio-talar Stability in Bimalleolar Ankle Fractures. A Dynamic In Vitro Contact Area Study. *Foot & Ankle* 11:222-227, 1991.
12. **Michelson, J.D.**; Magid, D.; Ney, D.R.; Fishman, E.K.: Examination of the Anatomic Pathology of Ankle Fractures. *J Trauma* 32:65-70, 1992.
13. Jahss, M.H.; Kummer, F.; **Michelson, J.D.**; Desai, P.: Investigations into the Fat Pads of the Sole of the Foot: Biomechanics. *Foot & Ankle* 13:227-232, 1992.
14. Jahss, M.H.; **Michelson, J.D.**; Desai, P.; Kaye, R.; Kummer, F.; Cheung, Y; Watkins, F.; Reich, S.: Investigations into the Fat Pads of the Sole of the Foot: Anatomy and Histology. *Foot & Ankle* 13:233-242, 1992.
15. Myers, A.H., Robinson, E.G.; Van Natta, M.L.; **Michelson, J.D.**; Collins, K.; Baker, S.P.: Hip Fractures Among the Elderly: Factors Associated with In-Hospital Mortality. *Amer J Epidem* 134:1128-1137, 1991.
16. Conti, S.; **Michelson, J.D.**; Jahss, M.H.: Clinical Significance of MRI in Preoperative Planning for Posterior Tibial Tendon Rupture Surgery. *Foot Ankle* 14:208-214, 1992.
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32. Perry, M.; **Michelson, J.D.:** Metatarsal Osteotomies: Indications, Techniques, and Complications. *J Ortho Tech* 3:103-115, 1995.
33. **Michelson, J.D.;** Ahn, U.M.; Magid, D.: Economic analysis of radiographic utilization in the closed treatment of ankle fractures. *J Trauma* 36:1119-1122, 1995.
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Tendon Dysfunction. *Foot Ankle Int* 17:566-568, 1996.

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63. McDowell, SW; Wahl ,R; **Michelson, J**: Herding Cats: The Challenges of Electronic Medical Record Vendor Selection. *Journal of Healthcare Information Management* 17:63-71, 2003.
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66. **Michelson, JD**: Critique of (im)pure reason: evidence-based medicine and common sense. *Journal of Evaluation in Clinical Practice* 10:157–161, 2004.
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68. **Michelson JD**; Hamel AJ; Buczek FL, Sharkey NA: The Effect of Ankle Injury on Subtalar Motion. *Foot Ank Int* 25:639-646, 2004.
69. **Michelson, JD**; Dunn, L: Tenosynovitis of the Flexor Hallucis Longus – A Clinical Study of the Spectrum of Presentation and Treatment. *Foot Ank Int* 26:291-303, 2005.
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73. **Michelson JD**: Simulation In Orthopaedic Education – An Overview of Theory and Practice. *J Bone Joint Surg (Am)* 88:1405-1411, 2006.
74. **Michelson JD**, Magid D, McHale K: Clinical Utility of a Stability-Based Ankle Fracture Classification System. *J Ortho Trauma* 21:307-315, 2007.
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Comprehensive Quality and Patient Safety Management Model: A Paradigm for Perioperative Improvement. *J Patient Safety* 4:84-92, 2008.

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78. Caplan JL; Jullien T; Neviaser RJ; **Michelson J**: Multidirectional instability of the shoulder in elite female gymnasts. *Am.J Orthop.* 36:660-665, 2007.

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82. Kirane YM, **Michelson JD**, Sharkey NA. Evidence of isometric function of the flexor hallucis longus muscle in normal gait. *J Biomech* 41:1919-1928, 2008.

83. **Michelson JD**, Manning L: Competency Assessment in Simulation-Based Procedural Education. *Am J Surg* 196:609-15, 2008.

84. Rodriguez-Paz JM, Mark L, Herzer K, **Michelson J**, Grogan K, Herman J, Hunt D, Wardlow L, Armour E, Pronovost P. Using In-Situ Simulation to Establish a New Intraoperative Program: A Novel Multidisciplinary Paradigm for Patient Safety. *Anesth Analg.* 108:202-210, 2009

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86. **Michelson JD**, Addante RA, Charlson MD. Multimodal Analgesia Therapy Reduces Length of Hospitalization in Patients Undergoing Fusions of the Ankle and Hindfoot. *Foot Ankle Int* 34:1526-34, 2013.

87. Wright M, **Michelson JD**. Lisfranc Injuries – An Easily And Frequently Missed Foot Injury. *Brit Med J* 347:4561-4565, 2013.

88. **Michelson JD**, Pariseau JS, Paganelli WC. Assessing Surgical Site Infection Risk Factors Using Electronic Medical Records. *Amer J Inf Control* 42:333-6, 2014.

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Review. J Ortho Trauma 32:10-14, 2018

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Letters:

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Selected Abstracts:

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- Delany JP, Charlson MD, **Michelson JD**: Ankle Fracture Stability-Based Classification: A Study of Reproducibility and Predictability, American Ortho Foot & Ankle Soc., July, 2018.
- Jacobs RC, Huynh TT, Ames SE, Tsai MH, **Michelson JD**. Business Modeling of Orthopaedic Trauma in the Emergency Department: An Untapped Revenue Stream?, American Acad Orth Surg, March, 2017.
- Michelson JD**. Using Decision Analysis to Assess Comparative Clinical Efficacy of Ankle Fracture Treatment Options, Ortho Research Soc, Jan. 2013.
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- Marshall C, Barrasso C, Hill R, Heitmiller E, **Michelson JD**, Herzer KR, Ness PM. Core Temperature Measurement of Red Cell Units Extends the Reissue Time and Reduces Blood Wastage, American Association of Blood Banks, Anaheim CA, 2007.
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Book Chapters:

Mark, L; Akst, S; **Michelson, J:** Difficult Airway/Intubation: Implications for Anesthesia. in Cummings Otolaryngology Head and Neck Surgery. 4th Edition (CW Cummings, et al. ed.), Elsevier Mosby, New York, 2005

2Michelson, J.; Amis, JA: Talus-Calcaneus-Cuboid (Triple) Arthrodesis. in Master Techniques in Orthopaedic Surgery: The Foot and Ankle. 2nd Edition (HB Kitaoka ed.), Lippincott Williams & Wilkins, Philadelphia, 2002.

Michelson, J.D.: Ankle Fractures. in Orthopaedic Knowledge Update 7. (K Koval ed) American Academy of Orthopaedic Surgery, Chicago, 2002.

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Michelson, J.D.: Compartment Syndromes., in Annotated Bibliography of Orthopaedic Foot and Ankle Surgery, (MS Mizel and GB Pfeffer, eds.) American Academy of Orthopaedic Surgery, Chicago, 1992.

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Jahss, M.H.; Kaye, R.A.; Desai, P.; **Michelson, J.D.;** Kummer, F.J.; Watkins, F.B.: Histology, Histochemistry, and

Biomechanics of the Plantar Fat Pads., in Disorders of the Foot and Ankle: Medical and Surgical Management (2nd Ed.) (Jahss, M.H ed.), W.B. Saunders Co., Philadelphia, 1991.

Magid, D.; **Michelson, J.D.:** Interactive 2D-3D CT of the Lower Extremity., in Three Dimensional Imaging in Clinical Medicine (Ferruci, J. eds) Andover Medical Publishers, 1991.

Invited Lectures:

Michelson, J.D.: Stenosing Tenosynovitis of the Flexor Hallucis Longus – It's Science, Not an Obsession, presented at the Jefferson New Jersey Orthopaedic Residency 2024 Research Symposium, 6/28/24.

Michelson, J.D.: How to Decipher the Orthopedic Literature for Ankle Fractures. Presented at the Rowan University Orthopaedic Surgery Residency teaching conference, 9/25/23 .

Michelson, J.D.: Releasing the FHL and Resecting the Os Trigonum: Advantages of the Open Approach. Presented at the Arthroscopy symposium at the 2022 AOFAS Annual meeting, 9/14/22, Quebec City, Canada.

Michelson, J.D.: How to Decipher the Orthopaedic Literature: Identifying Different Aspects of “Progress”, Grand Rounds, The University of Vermont Department of Orthopaedics, presented January 27, 2022.

Michelson, J.D: Syndesmotic Ankle Fractures: Life Inside a Systematic Review. Orthopaedic Surgery Grand Rounds at The University of Vermont, November 9, 2017.

Michelson, J.D.: Care of the Geriatric's Foot. Vermont Geriatrics Conference - Care That Emphasizes Function. April 17, 2007.

Michelson, J.D.: Update on Ankle Fractures: What's New Since 2000? Orthopaedic Surgery Grand Rounds at The University of Vermont, June 15, 2006.

Michelson, J.D.: The Use of Simulation in Medical Education. Pediatric Grand Rounds at The Children's National Medical Center of Washington, September 7, 2005.

Michelson, J.D.: The Use of Simulation in Medical Education. Orthopaedic Surgery Grand Rounds at The University of Vermont, June 16, 2005.

Michelson, J.D.: Tenosynovitis of the Flexor Hallucis Longus – A Clinical Study of the Spectrum of Presentation and Treatment. Orthopaedic Grand Rounds at Johns Hopkins, March 3, 2005.

Michelson, J.D.: Interdisciplinary Grand Rounds on Difficult Airway Management: The Use of the Electronic Patient Record to Document Issues with Difficult Airway Management. Johns Hopkins Medical Institutions, January 27, 2005.

Symposium on Computerization of the Orthopaedist's Office (**JD Michelson**, moderator) American Orthopaedic Foot and Ankle Society Annual Meeting, July, 2004

Michelson, JD: The Use of Simulation in Medical Education. College of the Uniform Services, March 2004, 2005.

Michelson, J.D.: The Much-Maligned Flat Foot: Defining the Flat-foot and Its Relationship to Injuries of the Lower Extremity. Orthopaedic Grand Rounds at Johns Hopkins, November 7, 2002.

Annual Univ. of Vermont Foot & Ankle Course (**JD Michelson**, director). 2003 - 2006.

Grzyb, S.E. and **Michelson, J.D.:** Clinical Exam of the Ankle with Discussion of Common Injuries. University of

Vermont Primary Care Sports Medicine Conference, September, 2001.

Michelson, J.D.: Ankle Fractures: A Scientific and Sociological Assessment. The Southeastern Orthopaedic Foot & Ankle Society, May, 2001.

Michelson, J.D.: The Controversies Attendant to Posterior Tibial Tendon Dysfunction. The Southeastern Orthopaedic Foot & Ankle Society, May, 2001.

Michelson, J.D.: Aggressive, Conservative Care of the Diabetic's Foot. The Alabama Orthopaedic Society, May, 2001.

Michelson, J.D.: Fractures of the Ankle and Tibial Plafond: Overview of Anatomy, Biomechanics, Radiology and Review of Current Controversies. AAOS Instructional Course Lecture Course, March, 2001.

Michelson, J.D.: Orthopaedic Perspectives on Diabetic Foot Problems. University of Vermont Primary Care Department Seminar, October, 2000.

Michelson, J.D.: Diagnosis and Examination of Injuries of the Foot & Ankle. Sports Medicine 2000: Current Concepts in the Treatment and Rehabilitation of Sports Injuries, University of Vermont, September, 2000.

Michelson, J.D.: Tendon Problems About the Ankle. Sports Medicine 2000: Current Concepts in the Treatment and Rehabilitation of Sports Injuries, University of Vermont, September, 2000.

Michelson, J.D.: Controversies in the Treatment of Posterior Tibial Tendon Dysfunction. Walter Reed Army Medical Center Dept. of Orthopaedic Surgery, April, 2000.

Michelson, J.D.: Diagnosis and management of ankle fractures. Walter Reed Army Medical Center Dept. of Orthopaedic Surgery, April, 2000.

Michelson, J.D.: Fractures of the Ankle and Talus: Overview of Anatomy, Biomechanics, Radiology and Review of Current Controversies. AAOS Instructional Course Lecture Course, March, 2000.

Michelson, J.D.: Aggressive Care of the Diabetic's Foot. University of Vermont Department of Orthopaedic Surgery Grand Rounds, April 8, 1999.

Michelson, J.D.: Fractures of the Ankle and Tibial Plafond: Overview of Anatomy, Biomechanics, Radiology and Review of Current Controversies. AAOS Instructional Course Lecture Course, February, 1999.

Reel, S.; Mandell, S.; **Michelson, JD:** Development of the Electronic Patient Record at Johns Hopkins. Symposium for Computer Applications in Radiology, June, 1998.

Michelson, J.D., Flint, P.: Management of the Difficult Airway in Orthopaedic Patients. Dept. Of Orthopaedic Surgery Grand Rounds, August, 1997.

Michelson, J.D.: Diagnosis and management of ankle fractures. Walter Reed Army Medical Center Dept. of Orthopaedic Surgery, August, 1997.

Michelson, J.D.: Radiologic Assessment of the Diabetic Foot. Dept. of Radiology Grand Rounds, Johns Hopkins Hospital, May, 1997.

Michelson, J.D.: Treatment and Casting for Diabetic Foot Conditions. National Association of Orthopaedic Technicians, Maryland Chapter; June, 1997.

- Michelson, J.D.:** Fractures of the Ankle and Tibial Plafond: Overview of Anatomy, Biomechanics, Radiology and Review of Current Controversies. AAOS Instructional Course Lecture Course, March, 1997.
- Michelson, J.D.:** Treatment and Casting for Diabetic Foot Conditions. National Association of Orthopaedic Technicians; August, 1996.
- Michelson, J.D.:** Pilon Fractures: Look Before You Leap. The Fifth Annual Current Concepts in Orthopaedics, Southern Orthopaedic Medical Society, May 16, 1996.
- Michelson, J.D.:** Management of Diabetic Foot Problems, Maryland Orthopaedic Society Annual Scientific Meeting, April 13, 1996.
- Michelson, J.D.:** The Evolution of Ankle Fracture Management. Orthopaedic Grand Rounds, University of Pennsylvania, March 6, 1996.
- Michelson, J.D.:** Ankle Fractures - Overview of Anatomy, Biomechanics, and Radiology. American Academy of Orthopaedic Surgeons Instructional Course Lectures, Feb. 26, 1996.
- Michelson, J.D.:** Controversies in Ankle Fractures. American Academy of Orthopaedic Surgeons Instructional Course Lectures, Feb. 26, 1996.
- Michelson, J.D.:** Biomechanics of the Ankle. Orthopaedic Research Seminar, University of Pennsylvania, March 6, 1996.
- Michelson, J.D.:** Diagnosis of the painful foot and ankle. Walter Reed Army Medical Center Dept. of Orthopaedic Surgery, Oct., 1995.
- Michelson, J.D.:** Diagnosis and management of ankle fractures. Walter Reed Army Medical Center Dept. of Orthopaedic Surgery, Oct., 1995.
- Michelson, J.D.:** Surgical Treatment of Sports Injuries to the Foot and Ankle. AAOS Summer Institute, Sept., 1995.
- Michelson, J.D.:** The Difficult Airway: Everyone's Problem. Third Annual Airway Management Course, Sept., 1995.
- Michelson, J.D.:** Ankle fractures - A different view. Pennsylvania Orthopaedic Society, Nov. 17, 1994.
- Michelson, J.D.:** Treatment of the rheumatoid hindfoot. Pennsylvania Orthopaedic Society, Nov. 17, 1994.
- Michelson, J.D.:** Staged treatment of the diabetic foot. Johns Hopkins Symposium on the comprehensive management of the diabetic foot., Nov 12, 1994.
- Michelson, J.D.:** Controversies in Ankle Fractures. New England Baptist Hospital, Orthopaedic Grand Rounds, June 16, 1993.
- Michelson, J.D.:** Advances in ankle fracture management. The Fourth Annual Current Concepts in Orthopaedics, Southern Orthopaedic Medical Society, May 14, 1994.
- Michelson, J.D.:** Ankle Fractures. The Hospital for Special Surgery and St. Luke's Hospital, Forum Club Meeting, Dec 2, 1993.
- Michelson, J.D.:** Ankle Fracture Management and Diagnosis. American Orthopaedic Foot and Ankle Society Regional Review Course, Baltimore, Nov., 1993.

Michelson, J.D.: Midfoot Fractures and Dislocations. The Third Annual Current Concepts in Orthopaedics, Southern Orthopaedic Medical Society, May 15, 1993.

Michelson, J.D.: Aggressive Conservative Care of the Diabetic's Foot. Johns Hopkins Department of Medicine Conjoint Clinic, March 20, 1993.

Michelson, J.D.: Charcot Marie - Tooth Disease, National Association of Orthopaedic Nurses., Baltimore, MD., March 12, 1993

Michelson, J.D.: Arthritis of the Foot: Evaluation and Treatment, Arthritis Foundation Rheumatology Update, March 2, 1993.

Michelson, J.D.: Foot and Ankle Anatomy. Department of Orthopaedic Surgery Resident Course on Anatomy; January 25, 1993.

Michelson, J.D.: Aggressive Management of Diabetic Foot Ulcers, Department of Medicine Grand Rounds, Baltimore Veteran's Administration Medical Center, November 17, 1992.

Michelson, J.D.: Compartment Syndromes of the Foot. American Orthopaedic Foot and Ankle Society Regional Review Course, Boston, November 15, 1992.

Michelson, J.D.: Common causes of Ankle and Foot Injuries: Approach to Diagnosis and Treatment. Arthritis Care for the 1990's: A Practical Approach for the Primary Care Physician, The Arthritis Foundation (Maryland Chapter); Baltimore, November 14, 1992.

Michelson, J.D.: Foot Pain: The Johns Hopkins Anesthesiology and Critical Care Medicine Department, September 16, 1992.

Michelson, J.D.: Differential Diagnosis of Foot Pain. The Johns Hopkins Anesthesia Pain Center Teaching Conference, September 14, 1992.

Michelson, J.D.: Bio-Absorbable Implants in Orthopaedic Surgery. presented at "Biological Response to Biomaterials in Orthopaedics" symposium, Johns Hopkins University School of Medicine, May 1, 1992.

Michelson, J.D.: Update on Ankle Fractures. Current Concepts in Orthopaedic Surgery, Southern Orthopaedic Medical Society, April 25, 1992.

Michelson, J.D.: Foot and Ankle Injuries in Running Athletes. Sports Medicine teaching conference, The Bennett Institute of Sports Medicine, Department of Orthopaedic Surgery, The Johns Hopkins University School of Medicine, April 23, 1992.

Michelson, J.D.: The Osteogenic Response to Irradiation. The Baltimore Bone Research Club, April 13, 1992.

Michelson, J.D.: Diagnosis and treatment of the Charcot Foot. General Surgery Grand Rounds, Johns Hopkins Hospital, March, 1992.

Michelson, J.D.; Magid, D.: Controversies in Ankle Fractures, Orthopaedic Surgery Grand Rounds, Yale University School of Medicine, Jan. 17, 1992.

Michelson, J.D.: Ankle Fractures. American Orthopaedic Foot and Ankle Society Review Course for Residents, New York, Oct., 1991.

Michelson, J.D.: Posterior Tibial Tendon Pathology in Rheumatoid Arthritis. Rheumatology Conference, Johns

Hopkins, 1991.

Michelson, J.D.: Investigations into the Human Sole: The Anatomy, Histology, and Mechanics of the Fat Pad of the Heel. Orthopaedic Grand Rounds, Johns Hopkins, 1991.

Michelson, J.D.: Diagnosis and Treatment of the Ruptured Posterior Tibial Tendon. General Surgery Grand Rounds, Johns Hopkins, 1990.

Michelson, J.D.; Magid, D.L.; Clarke, H.; Jinnah, R.: A New Look at Ankle Fractures. Interurban Orthopaedic Society, 1990.

Michelson, J.D.: What We Think We Know About Ankle Fractures - But Really Don't. Orthopaedic Surgery Grand Rounds, Johns Hopkins, 1990

Michelson, J.D.: Skin and Toenail Diseases of the Foot. American Orthopaedic Foot and Ankle Society Review Course for Residents, Philadelphia, Oct., 1990.

Visiting Professorships:

Philadelphia Orthopaedic Society and Einstein Medical Center Rechtman Lectureship, April 11, 2005.

Albert Einstein Medical Center, Philadelphia, PA, April 30, 2004.

University of Vermont, Department of Orthopaedic Surgery, May 29, 2003.

Baylor School of Medicine, Department of Orthopaedic Surgery, May 21, 2003.

University of Vermont, Department of Orthopaedic Surgery, Nathaniel Gould Lectureship, April 8-9, 1999.

Baylor School of Medicine, Department of Orthopaedic Surgery, December 2-3, 1998.

Harvard School of Medicine, Department of Orthopaedic Surgery: December 10-11, 1996.

University of Pennsylvania, Department of Orthopaedic Surgery: March 5-6, 1996.

Yale University School of Medicine, Department of Orthopaedic Surgery: January 16-17, 1992.

Audio-visual Productions:

Ankle Fractures. American Orthopaedic Foot and Ankle Society Regional Review Course, 1994.

Lectures Presented for Orthopaedic Resident Didactic Teaching Program (1987 - Present):

Multiple lectures covering all Foot & Ankle topics, basic science of fracture healing, bone metabolism & physiology, and statistical methods in biology.

Other Lectures:

For the College Of Nursing And Health Sciences Department Of Rehabilitation And Movement Science, University of Vermont (2008-2018): Undergraduate Lecture on Clinical Biomechanics of the Foot & Ankle.

For the Simulation Center at George Washington University School of Medicine and Health Sciences (2002 – 2007): multiple presentations on the use of simulation in medical education to groups including: The Industrial College of the Armed Forces, the Board of Trustees of the George Washington University, the Faculty Senate of the George Washington Univ. School of Medicine and Health Sciences, the Advisory Board of the George Washington University Center for Emergency Preparedness, George Washington University Medical Alumni, and numerous visiting dignitaries (including delegations from Panama, China, Japan, and the Middle East).

To Medical Students (1988 - 2000): assessment of pelvic trauma and hip fracture/dislocations, identification of orthopaedic emergencies, examination of the foot and ankle, assessment of foot & ankle injuries, care of the foot in diabetes, orthopaedic anatomy

To Nursing Staff: Assessment, treatment, and rehabilitation of extremity injuries

Professional Memberships:

Member, American Orthopaedic Association

Member, American Orthopaedic Foot and Ankle Society.

Member, Orthopaedic Research Society.

Fellow, American Academy of Orthopaedic Surgeons.

Diplomate, American Board of Orthopaedic Surgery.

Editorial Positions:

Member, Editorial Board, Journal of Orthopaedic Trauma; 2014-present

Member, Editorial Review Board, Journal of Orthopaedic Research; 2017-present

Reviewer, British Medical Journal, 2014 – present

Reviewer, The Lancet, 2016 – present

Reviewer, Journal of Orthopaedic Research; 2002 - present

Reviewer, Journal of Orthopaedic Trauma; 2008 - present

Reviewer, Journal of Bone and Joint Surgery; 2001 - 2018.

Reviewer, Clinical Orthopaedics and Related Research; 1995 - present.

Reviewer, Journal of the American Academy of Orthopaedic Surgery; 1995 - present.

Reviewer Foot & Ankle International, 2023-present

Associate Editor, Foot & Ankle International; 1990 – 2005.

Reviewer, Annals of Emergency Medicine; 1991 - 2000.

Co-editor-in-chief, University of Pennsylvania Orthopaedic Journal, 1986 - 1987.

Associate editor, University of Pennsylvania Orthopaedic Journal, 1984 - 1986.

Research Positions:

Chief, Orthopaedic Research Section of the Surgical Research Laboratory, Veteran's Administration Hospital, Loch Raven, Baltimore, Md.; July, 1987 - July, 1992.

Research resident, Dept. of Orthopaedic Surgery, Hospital of the Univ. of Penn., July, 1983, - June, 1984.

M.D. thesis research, Howard Hughes Medical Institute of Cellular Immunology at Yale University School of Medicine, Dr. Richard Gershon, Director; Jan., 1979 - June, 1982.

Research Assistant to Dr. Daniel Drachman, The Johns Hopkins University School of Medicine, Sept., 1977 - Aug., 1978.

Research Fellowship from the Muscular Dystrophy Association, in the laboratory of Dr. Daniel Drachman, The Johns Hopkins University School of Medicine, summer, 1976.

Current Research Interests:

1. Medical informatics
 - a. Text-mining techniques for detection of post-operative infections
 - b. The use of natural language processing for patient safety surveillance
2. Biomechanics and epidemiology of ankle injuries:
 - a. Continuing development of the 3-dimensional kinematic model using the dynamic human gait simulator (in collaboration with Neil Sharkey, PhD, at Penn State University).
 - b. Development of an evidenced-based decision analysis tool for the treatment of ankle fractures (published)
 - c. Analysis of ankle fracture epidemiology among skiers and snowboarders (submitted) – in conjunction with Ken Needham, MSIV
 - d. Comparison of the prognostic capability of the stability-based ankle fracture classification to historically used ankle fracture classifications (in progress)

Research Mentorship (since 2007):

Residents:

- JP Delaney, Joseph McLaughlin, Jonathan Hall – Ability of the stability-based ankle fracture classification system to predict treatment and outcomes (2009-2018)
- Jessie Janowski - Morphology of the 1st metatarsal phalangeal head as a risk factor for hallux rigidus and hallux valgus (2012- 2017)
- Robert Jacobs – Clinical activities of Orthopaedic Residents in the Emergency Department: Academic and Financial consequences (2013-2018).

- John Nolan – Utilization and utility of post-operative laboratory studies (2014-2018).
- Amanda Holleran – anatomy and clinical implications of calcaneal traction spurs at the Achilles insertion (2017-18).
- Jesse Chlebeck, Amanda Moyer, David Christensen – Evaluation of the clinical determinants for choosing non-operative care of hip fractures in the elderly, with assessment of outcomes compared to surgical treatment
- Chris Birch – necessity of perioperative laboratory testing for patients have surgery under Bier block anesthesia
- Michael Wright – systematic review of the diagnosis and treatment of ankle fractures with syndesmotic injury
- Mitch Tarka – Development of a FHL Excursion measurement device for clinical use
- Ben Kindred – Ankle fractures in skiing and snowboarding using the Sugarbush Injury Dataset

Medical Students:

- Jenna Pariseau - Assessing Surgical Site Infection Risk Factors Using Electronic Medical Records (2011-2012), presented at the UVM Department of Orthopaedics Resident Research Day, June 8, 2012.
- Raymond Addante - The Influence of Multimodal Analgesia on Hospital Length of Stay in Foot and Ankle Surgery, (2012).
- Jeremy Korsh - The Effect Of Vitamin D On The Healing Of Fractures And Fusions of the Foot and Ankle, (2012)
- Ashley Miller – Risk Factors for Post-operative Infection After Spine Surgery, (2013)
- Shrey Kanjiya – 1. Assessment of the Reproducibility of the Ankle Fracture Stability Classification (2013); 2. Validation of the Measurement of FHL Excursion in the Clinical Setting (2014)
- James McAvoy - Assessment of the Reproducibility of the Ankle Fracture Stability Classification (2013)
- Brian Muchmore - Developing An Architecture for Data Mining Electronic Health Care Records in Real-Time with Deep Neural Networks (2018-present)
- Lauren Bougioukas & John O’Keefe - Measuring Excursion Of The Flexor Hallucis Longus (FHL) In A Population Of Foot & Ankle (F&A) Patients That Includes Those With FHL Entrapment (2019)

Grant Support:

Michelson, J and Brighton, CT: The Inductive Influence of Direct Current and Decalcified Bone Matrix on an in vivo Model of Endochondral Ossification. Funded through an Orthopaedic Research and Education Foundation Resident Research Award, 1984-85.

Michelson, J: The Effects of Electrical Current Stimulation in an in vivo Culture Model of Osteogenesis. Funded by the Orthopaedic Research and Education Foundation, 1989.

Sharkey, N and **Michelson, J:** Kinematic Behavior of the Ankle Following Malleolar Fracture and Repair in a High Fidelity Cadaver Model. funded by the Orthopaedic Trauma Association, 1999-2000, \$25,000.

Administrative Activities:

National/Regional Organizations:

American Orthopaedic Foot and Ankle Society, Research Committee, Member: 2018 – present.

Orthopaedic Research Society, Topic Chairman for Foot & Ankle, Annual Meeting Program Committee; 2012 – 2014.

American Academy of Orthopaedic Surgery, Foot and Ankle Evaluation Committee, Member, 2010 – 2014.

American Academy of Orthopaedic Surgery, Instructional Course Coordinator; 1997 - 2001.

American Academy of Orthopaedic Surgery, Annual Program Sub-Committee, Member: Jan. 1999 - present.

American Academy of Orthopaedic Surgery, Committee on Exhibits, Member: Jan. 1997 - 1999.

American Orthopaedic Foot and Ankle Society, Committee for the Resident Regional Review Course, Member: July, 1995 - 1999, Chairman: July, 1996 - 1999.

American Orthopaedic Foot and Ankle Society, Education Committee, Member: July, 1996 - 1999.

Health Care Finance Administration, Review Panel for Centers of Excellence for Total Joint Arthroplasty Pilot Project, Member: August, 1997.

George Washington University School of Medicine and Health Sciences:

Medical Center Academic Technology Committee, Member, (October, 2003 - present).

Committee for Educational Resources, Member, (July, 2004 - present).

University of Vermont College of Medicine/Fletcher Allen Medical Center:

University of Vermont Medical Network Musculoskeletal Service Line Quality Committee; Chairman (2017 – present).

Quality Assurance Committee for the Department of Orthopaedics and Rehabilitation; Chairman (2016-present), member (2014-present).

Information Services Electronic Medical Record Vendor Selection Committee, Fletcher Allen Medical Center, Member, (September, 2000 - March 2002).

Course Director, Musculoskeletal Medicine (“Connections”), University of Vermont Integrated

Curriculum, Member, (April, 2001 - March, 2002).

Operating Room Instrumentation Quality Group, Fletcher Allen Medical Center, Member, (May, 2001 - March, 2002).

Johns Hopkins School of Medicine/Hospital:

Chairman, Johns Hopkins Hospital Clinical Data and Documentation Committee, (Jan., 1998 - Aug, 2000).

Chairman, Johns Hopkins Electronic Patient Record User's Group, The Johns Hopkins Hospital, (Sept., 1996, - Aug, 2000).

Johns Hopkins Clinical Systems Advisory Committee, The Johns Hopkins Hospital, Member. (July, 1995, - Aug, 2000)

Johns Hopkins Hospital Medical Care and Evaluation Committee, member. (Jan, 1998 - Aug, 2000)

Johns Hopkins Hospital Latex Task Force, Member (Sept., 1998 - Sept, 1999)

Johns Hopkins Clinical Practice Association Managed Care Contracting Committee, Member: Sept., 1997 - March, 1998.

Johns Hopkins Clinical Practice Association Clinical Documentation Compliance Committee, Member: Sept., 1997 - March, 1998.

Medical Director, Johns Hopkins Orthopaedic Surgery Physician Network (Dec. 1995 - March, 1998)

Johns Hopkins Medical Services Corporation Contract Physician Steering Committee, Member. (Sept. 1995 -July, 1997)

Johns Hopkins Electronic Patient Record Workgroup, The Johns Hopkins Hospital, Member. (June, 1994 - June, 1995)

Subcommittee on Front-End Computer Interface Development (member)

Johns Hopkins Information Security and Access Committee, The Johns Hopkins Hospital, Member. (June, 1995, - Aug, 2000)

Subcommittee on Policy Development (member)

Johns Hopkins Outpatient Center Operating Room Committee, Department of Orthopaedic Surgery Representative (June, 1992 - Aug, 1999)

Johns Hopkins University Joint Committee on Housestaff and Post-doctoral Education, Department of Orthopaedic Surgery Representative. (Sept. 1990 - July, 1995)

Subcommittee on Women in Medicine (member)

Subcommittee on Postdoctoral Finances (Chairman)

Baltimore Veteran's Administration Hospital Medical Records Committee, Member (July, 1988 - June, 1992).

Medical Advisory Committee of the Adult General Clinical Research Center at Yale University School of Medicine; Sept., 1980, - June, 1982, Member.

Johns Hopkins Department of Orthopaedic Surgery:

Clinical documentation compliance director, Department of Orthopaedic Surgery, The Johns Hopkins University School of Medicine: March, 1996 -March, 1998.

Oversight of The Johns Hopkins Outpatient Orthopaedic Clinic, April, 1995 -March, 1998.

Development of clinical billing monitoring procedures to track surgical billings and assess performance of University Billing Office. (Includes creation of tracking monitors for billing efficiency, rejection rate, rejection analysis, resubmission efficiency, and resubmission failure analysis.) April, 1995 - March, 1998.

Resident Education Committee, Department of Orthopaedic Surgery, The Johns Hopkins University School of Medicine;

Member: May 1991 - Aug, 2000

Chairman: May 1991 - July, 1995.

Research Committee, Department of Orthopaedic Surgery, The Johns Hopkins University School of Medicine, Member: May 1991 -March, 1998.

Chairman, Clinical Database Committee, Department of Orthopaedic Surgery, The Johns Hopkins University School of Medicine, (May 1991 -March, 1998).

Miscellaneous Teaching Positions:

Freshman Counselor, Yale College, 1979-80.

Teaching Fellow in Applied Physics, Harvard College, 1975-76.

Teaching Fellow in Physics, Harvard College, 1974-75.

Community Service Activities:

Board Member, SpeciaLove (for Children with Cancer); September, 2005 - present

Development Committee member, SpeciaLove (for Children with Cancer); January, 2004 – present.

Medical Staff special volunteer, Pediatric Oncology Branch, National Cancer Institute (Dr. Lee J. Helman, M.D., Director), Camp Fantastic Pediatric Oncology Camp, Front Royal, Va, 1997-2016 (one week in August each year).

George Washington University Medical Relief Team member for the Katrina Hurricane Disaster, September 12-19, 2005.

Faculty advisor, Medical Student Orthopaedic Interest Group, George Washington Univ. School of Medicine, 2002-present.

Faculty advisor, Johns Hopkins School of Medicine Freshman Class Orientation Retreat, 1997, 1998.

Medical student advisor, Johns Hopkins School of Medicine, 1994 - 1996.

Member, Maryland International Health Task Force to Kuwait, traveled to Kuwait to assess medical needs immediately after Persian Gulf War, 1991.

Visiting Teacher for Human Physiology; Baltimore Polytechnic Institute; May, 1993; May, 1995; May, 1996.

Interests and Activities:

Baltimore Bicycling Club, 1993 - 2000

Scuba diving (PADI certified), Advanced Open Water certified, Nitrox certified, underwater photography certified

Baltimore Rowing Club, 1989.

Varsity Lacrosse, Harvard College, 1975 - 1977 (All-New England, goalie; 1976, 1977).

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