Paul Kalnins ND, MSOM
Data Scientist/Software Engineer/Naturopathic Physician

I'm a naturopathic physician, acupuncturist, and medical educator with 23-years of experience teaching and practicing integrative primary care family medicine. Currently, I'm transitioning into a career focused on data science and software engineering with a desire to apply these skills in the healthcare field in order to improve health outcomes. My training to date has been in full-stack web development (primarily using the MERN stack), data analysis and visualization, machine learning, and database management using both relational and non-relational databases.

Contact

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LinkedIn
www.linkedin.com/in/pkalnins9

Github
https://github.com/pkalnins

Work Experience

Sept 2004 - Sept 2020

Assistant Professor
National University of Naturopathic Medicine (NUNM)

Served as a lecturer, attending physician, and research mentor at an accredited 4-year naturopathic medical school. My focus was on teaching and practicing integrative primary care family medicine, with an emphasis on neuroendocrine-immunology and the management of complex illnesses using evidence-based therapies. My other duties included program administration, student mentoring, curriculum design, and development of in-person and online courses.

Oct 1999 – Sept 2004

Naturopathic Physician & Acupuncturist
New Health Horizons (Internal + Integrative Medicine)

Served as a naturopathic physician and acupuncturist in an integrative care center focused on internal medicine. Patients received collaborative care from a panel of internal medicine and integrative medicine specialists. My focus was on addressing chronic gastrointestinal, respiratory, cardiovascular, gynecologic, and pain disorders using evidence-based nutritional and botanical therapies, along with acupuncture and conventional therapies.

Education

June 1998
Portland, OR

Doctor of Naturopathic Medicine (ND)
National College of Naturopathic Medicine (NCNM)

June 1998
Portland, OR

Master of Science, Oriental Medicine (MSOM)
National College of Naturopathic Medicine (NCNM)

June 1992
Columbus, OH

Bachelor of Science (BS)
Mathematics & Physics, with Honors
The Ohio State University

Skills

Data Science
General skills:
- Statistics & probability
- Linear algebra
- Python

Data visualization
- Matplotlib, Seaborn

Data analysis/machine learning
- Numpy, Pandas
- Scikit-learn, TensorFlow

Database management
- MySQL, PostgresSQL
- MongoDB

Web Development (Fullstack)
- HTML/CSS, Javascript
- React, Node.js, Express.js, MongoDB

Clinical Practice Skills:
- Integrative medicine specialist
- Chronic disease management
- Herbal pharmacology/toxicology
- Electronic health records/EPIC

Academic/Research Skills:
- Lecturing/public speaking
- Curriculum development
- Thesis advising, student mentoring
- Program administration
- Published case reports
- Herbal analytics: TLC, HPLC

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Publications

Theses
- *Toxemia and Terrain: The Evolution of Intestinal Dysbiosis and Hyperpermeability* (1998)
- *Goethean Phenomenology: An Alternative to Phytochemical Reductionism* (1998)

Studies/Case Reports
- Mist SD, Aicken M, **Kalnins P**, Cleaver J, Batchelor R, Thorne T, Chamberlin S, Tippens K, Colbert AP. Reliability of AcuGraph system for measuring skin conductance and acupoints. Acupunct Med. 2011 Sep;29(3):221-6

- Dombrowski A, Imre K, Yan M, **Kalnins P**, Gouge L, Silver D, Zwickey H. Treatment of Osteoarthritis With Low-level Laser Therapy, Acupuncture, and Herbal Therapy: A Case Report. Integr Med (Encinitas). 2018 Apr;17(2):48-53. PMID: 30962785; PMCID: PMC6396761.

- **Kalnins P,** Brucker M, Spears D. Prolonged Survival in a Patient with Idiopathic Pulmonary Fibrosis Receiving Acupuncture and DHEA-Promoting Herbs with Conventional Management: A Case Report. Perm J. 2019;23:18-074. doi: 10.7812/TPP/18-074. PMID: 30624191; PMCID: PMC6326563.

Professional Activities

Evidence-based medicine (EBM) training and activities:
- Evidence-Based Medicine in CAM Short Course (August 2008, 2009, 2010, 2011, 2012)
- North American Research Conference on Complementary and Integrative Medicine (2009)
- Symposium for Portland Area Research in CAM (SPARC) (2011)
- International Research Conference in Integrative Medicine and Health (IRCIMH) (2012)
- NUNM Vanguard Faculty Member (2008-present)
- NUNM Helfgott Research Institute Faculty Investigator (2010-2016)
- Participant in EBM clinic shadow program (Internal medicine at OHSU, 2014)
- SAIM Integrative Medicine Day (2018)

Academic/Administrative experience:
- Chair of Biomedical Sciences, NUNM department of Classical Chinese medicine (2009-present)
- NUNM Curriculum Transformation Committee (CTC) (Sept 2013-present)
- NUNM Program and Curriculum Review Committee (PCRC) (Sept 2012-present)
- NUNM Clinic Guidelines Committee (2010-present)
- NUNM Academic Review Committee (2013-present)
- NUNM Metabolism & Endocrinology block coordinator & instructor (2014-present)
- NUNM Introduction to Medical systems block coordinator & instructor (2014-present)

Other activities:
- Advancement of Biotherapeutic Drainage Association (ABDA) (1998-2012)
- Participant, lecturer, facilitator at the International Post-graduate Medical Training in Anthroposophic Medicine and Therapeutics (IPMT) (2013, 2014, 2015, 2016)
- ACLS certification (2015)
- Neurology & neurosurgery seminar for the primary care provider (OHSU, 2015)
- NUNM Global Health faculty, Tanzania field studies (July 2016)
- Integrative cardiology seminars for naturopaths (OHSU Department of Cardiology, 2016)
- Advanced EPIC/EHR training (2014-2017)
- Presenter: NUNM Autoimmune Seminar on autoimmune thyroiditis (2017)
- Presenter: Introduction to Anthroposophic Medicine (AIHM) (2017)