

JIE LIAN, PH.D.

ASSOCIATE

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OVERVIEW

Jie's practice includes the preparation and prosecution of U.S., international, and foreign patent applications, and performing patentability and prior art searches and freedom-to-operate analysis.

Jie's professional experience includes more than 10 years of academic research and more than 13 years of industrial research and development, spanning areas including medical devices, mobile health, signal/image processing, and wearable technology, among others. He specializes in artificial intelligence/machine learning, database, 3D printing, medical devices, wearables/IoTs, signal/image processing, MEMS and sensor technology, statistical analysis, physiological modeling, and algorithm development for embedded systems. Jie has published three book chapters and more than 70 peer-reviewed research articles and served as an expert reviewer for more than a dozen scientific journals. He is the recipient of more than 50 issued or pending U.S. patents and dozens of European patents.

Jie joined Klarquist as a patent agent in 2017 and became an associate in 2020.

PROFESSIONAL EXPERIENCE

- ▶ Klarquist Sparkman | Patent Agent, 2017 – 2020 | Portland, OR
- ▶ Ganz Pollard | Patent Agent, 2016 – 2017 | Hillsboro, OR
- ▶ Micro Systems Engineering | Staff Engineer, Project Manager, 2002 – 2015 | Lake Oswego, OR

PROFESSIONAL ACTIVITIES

- ▶ 2018 Session Chair, 40th Annual International Conference of IEEE-EMBS
- ▶ 2005 – present, Senior Member, Institute of Electrical and Electronics Engineers (IEEE)
- ▶ 2015 – present, Member, IEEE Technical Committee on Wearable Biomedical Sensors and Systems
- ▶ 2013 – present, Member, IEEE Internet of Things Community
- ▶ Member, Alumni Board of Directors of Lewis and Clark Law School

EDUCATION

*J.D., summa cum laude,
Lewis & Clark Law School,
2020*

M.B.A., Healthcare
Management, Oregon
Health & Science
University/Portland State
University, 2011

Ph.D., Bioengineering,
University of Illinois
Chicago, 2002

M.S., Biomedical
Engineering, Zhejiang
University, 1995

B.S., Biomedical
Engineering, Zhejiang
University, 1992

ADMISSIONS

Oregon, 2020

U.S. Patent and Trademark
Office, 2012 (Reg. No.
70,556)

PRACTICE AREAS

Copyright

Patent

Trademark

Klarquist

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HONORS & AWARDS

- ▶ Sole Recipient of the *Jan Jancin Award* for intellectual property law | 2019
- ▶ *Biotronik Innovation Award* | 2008 and 2013
- ▶ Member, Cornelius Honor Society, Lewis and Clark Law School

PRESENTATIONS & PUBLICATIONS

- ▶ Lian J. Twitters Beware: The Display and Performance Rights. 21 Yale J.L. & Tech. 227, 2019
- ▶ "Oracle America v. Google, Free Java: Fair or Unfair?" IPWatchdog, 7/9/2018
- ▶ Lian J, Garner G, Muessig D. Biventricular capture verification by means of morphological analysis of intracardiac electrogram. *Europace*, 15:1677-1683, 2013
- ▶ Lian J, Wang L, Muessig D. A simple method to detect atrial fibrillation using RR intervals. *Am J. Cardiol.*, 107: 1494-1497, 2011
- ▶ Lian J, Muessig D, Lang V. Risk assessment of R-on-T event based on modeled QT-RR relationship. *Pacing Clin. Electrophysiol.*, 34(6): 700-708, 2011
- ▶ Lian J, et al. Clinical appointment process: improvement through schedule defragmentation. *IEEE Eng. Med. Biol. Mag.*, 29(2): 127-134, 2010
- ▶ Lian J, Garner G, Muessig D, Land V. A simple method to quantify the morphological similarity between signals. *Signal Processing*, 90(2): 684-688, 2010
- ▶ Lian J. Unravel the complexity of heart rhythm: a modeling approach. In L. A. Vespry (Ed): *Cardiac Arrhythmia Research Advances*. Nova Science Publishers, pp. 9-31, 2007
- ▶ Lian J, Muessig D, Lang V. Ventricular rate smoothing for atrial fibrillation: a quantitative comparison study. *Europace*, 9: 506-513, 2007
- ▶ Lian J, Muessig D, Lang V. On the role of ventricular conduction time in rate stabilization for atrial fibrillation. *Europace*, 9: 289-293, 2007
- ▶ Lian J, Clifford GD, Muessig D, Lang V. Open source model for generating RR intervals in atrial fibrillation and beyond. *Biomedical Engineering Online*, 6:9, 2007
- ▶ Lian J, Muessig D, Lang V. Computer modeling of ventricular rhythm during atrial fibrillation and ventricular pacing. *IEEE Trans Biomed Eng*, 53: 1512-1520, 2006

TECHNOLOGY AREAS

Software & Internet
Technology
Electrical & Semiconductors
Mobile Devices &
Applications
Consumer Products
Nanotechnology
Mechanical
Medical Devices &
Diagnostics