Orchid Imaging, Inc.
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orchidimaginginc@gmail.com

David Gu, PhD
Co-Founder and CTO
Dr. Gu is a renowned expert in computational geometry and has extensive experience in medical imaging. He holds multiple patents on Virtual Colonoscopy which has been licensed by GE and Siemens.

Rong Zhao, PhD, MBA
Co-Founder and CEO
Dr. Zhao has over 20 years of software development and technology commercialization experience. He has developed innovative solutions and played integral roles in several startups.

Shikui Chen, PhD
Co-Founder and VP Engineering
Dr. Chen’s expertise is in the fields of structural shape and topology optimization and geometric modeling.

Elinor Schoenfeld, PhD
Scientific Advisor
Dr. Schoenfeld is an expert in epidemiology and has over 32 years of clinical research experience.

Rhett Drugge, MD
Clinical Advisor
Dr. Drugge is a practicing dermatologist and inventor of the Melanoscan® imaging system.

Evan Jones, MD
Clinical Advisor
Dr. Jones is a dermatologic surgeon and Chair of Dermatology at Stony Brook Medicine (SBM).

Adam Korzenko, MD
Clinical Advisor
Dr. Korzenko is the Director of Pigmented Lesion Clinic at SBM

Jordan Slutsky, MD
Clinical Advisor
Dr. Slutsky is a dermatologic surgeon and cutaneous oncology specialist.

Orchid Imaging is a technology startup commercializing high-speed and high-resolution 3D scanning technology and advanced geometric modeling algorithms. We develop innovative applications for healthcare, cosmetics, computer games, entertainment, manufacturing, and other industries.

Unmet Need
Skin cancer is the most common cancer in the United States and skin cancer rates have increased steadily over the past three decades. It is estimated that 1 in 5 Americans will develop skin cancer during their lifetime. Full-body screening and early detection can save lives, improve treatment outcome, and lower the cost of care. However, existing imaging solutions are unreliable, time-consuming and cost-prohibitive.

Technology
Orchid Imaging’s patent-protected 3D total body imaging system provides a high-speed, high-accuracy and lower-cost alternative to existing skin imaging products. Our diagnostic software incorporates advanced geometric modeling and deep-learning techniques to automate lesion detection and comparison, further enhancing the accuracy of cancer risk assessment and reducing unnecessary biopsies. Our technology offers a reliable, efficient and affordable solution to skin cancer screening and early detection.

Development
A high-speed scanner using multi-wavelength phase-shifting structured light has been developed to capture high quality 3D images of the skin with depth resolution of 0.2mm.

Our patent-protected conformal mapping algorithm flattens the skin surface captured by the 3D scanner onto a 2D plane, while preserving local shapes and minimizing distortions. This transformation allows us to perform automated lesion identification and comparison in real-time.

Dr. Gu introduced this technique to diagnostic imaging, which has been licensed by GE and Siemens and is used by clinicians in the US and other countries for early detection of colon cancer.

Commercial Potential

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