

## Strengths

### Hardware

- Neuromorphic & industrial imaging: event cameras (EVK, DAVIS), machine-vision cameras, multi-sensor sync
- Optical & spectral system design: hyperspectral, lensless, diffractive
- Edge-device development, PCB design, 3D modelling, CNC motion control

### Software

- Python, PyTorch, C/C++, R, Stan
- Real-time capture, streaming & inference pipelines
- Full-stack web & mobile apps; Linux, embedded
- Reproducible open-source builds

### Algorithms

- Physics-informed deep learning
- Computational imaging & inverse problems
- 2D/3D detection, segmentation & tracking
- Bayesian & quantum-inspired ML

## Companies & Brands

### LazyingArt LLC

USA | Founder & CEO

### LightMind Tech Ltd

Hong Kong, est. Sep 2025 | Co-founder & COO

lazying.art • onlyideas.art • lightmind.art

## Open Source

### OpenHI (105★)

event-camera hyperspectral imaging

### Local Knowledge Terminal

cited multilingual knowledge cards

### LazyEdit

local-first AI video workflow

### PaperAgent

browser LaTeX & code workspace

### Susskind Lecture Archive

The Theoretical Minimum, transcribed

### 125+ public repositories

github.com/lachlanchen

## Languages

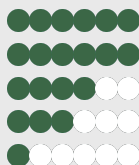
Chinese

English

Cantonese

Japanese

Vietnamese



## Interests

Meditation • Running • Guitar • Reading • Calligraphy



lazying.art GitHub Scholar

# LachlanChen

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## EDUCATION

2023 - Present **PhD, Electrical & Electronic Engineering** | 📍 **University of Hong Kong**

- Imaging Systems Lab: neuromorphic, hyperspectral & lensless imaging.

2018 - 2021 **Master, Precision Medicine & Public Health** | 📍 **Tsinghua University**

- Organ-on-a-chip design, biomedical image analysis, Bayesian inference.

2009 - 2014 **Bachelor, Applied Chemistry** | 📍 **Sichuan University**

- Cyclo[6]aramide macrocycle synthesis in Prof. Lihua Yuan's group.

## EXPERIENCE

2025 - Present **Founder & CEO, LazyingArt** • **COO, LightMind** | 📍 **USA / HK**

- AI wearables, automation hardware & software, machine vision, lab automation.
- Algorithm Engineer / Head of Algorithm Department** | Hangzhou 📍 **JifuTek**

- 2D/3D cell & organoid segmentation and drug-efficacy analysis; 4 patents filed.

Aug - Dec 2019 **STEM Tour & STEAM Design** | Yunnan 📍 **Tsinghua University & UNICEF**

- Led hands-on chemistry, physics, biology, robotics & drone experiments.

2014 - 2018 **Financial Planner** | Luzhou 📍 **China Securities**

- Investment advisory analytics and client data analysis.

## PUBLICATIONS

Google Scholar ➡

1 **Chen, R.**; Wang, C.; Li, Y.; Cao, Y.; Zhu, S.; Lam, E. Y. **Self-calibrated neuromorphic hyperspectral derivative imaging.** *Optica* 13(4), 587–590, 2026.

2 Wang, C.; Zhu, S.; Chen, N.; Wu, J.; Li, S.; Li, Y.; Zhu, Y.; **Chen, R.**; Zhang, Y.; Lam, E. Y. **Neuromorphic high-throughput imaging via transport-induced differential sensing.** *Nature Communications*, accepted, 2026.

3 Cao, Y.; Zhu, S.; **Chen, R.**; Chen, J.; Chen, N.; Lam, E. Y. **Rapid tracking through strongly scattering media with physics-informed neuromorphic speckle analysis.** *arXiv:2604.25310*, 2026.

4 **Chen, R.**; Nie, H.; Zhu, S.; Zhao, Y.; Wang, C.; Lam, E. Y. **Inverse design of metasurface for spectral imaging.** *arXiv:2510.21924*, 2025.

5 Tian, Y.; **Chen, R.**; Zhu, Y.; Chen, J.; Lam, E. Y. **Coherent lensless diffraction imaging via multicore fiber for label-efficient microplastics characteristic discrimination.** *Proc. SPIE* 13719, 211–217, 2025.

6 **Chen, R.**; Li, Y.; Wang, C.; Ma, S.; Lam, E. Y. **Event-based rapid organoid imaging.** *Optica COSI*, CTh3B.5, 2025.

7 **Chen, R.**; Zhao, Y.; Liu, H.; Xu, H.; Ma, S.; Lam, E. Y. **Eigen-component analysis: a quantum theory-inspired linear model.** *IEEE ISCAS*, 2025.

8 Zhao, Y.; **Chen, R.**; Wang, C.; Lam, E. Y. **eSports broadcasts with event cameras.** *ICONIP*, 2024.

9 **Chen, R.**; Zhu, S.; Wang, C.; Lam, E. Y. **Spectrum synthesis with computational neuromorphic imaging.** *Optica COSI*, CM2B.3, 2024.

10 **Chen, R.**; Xu, H.; Hou, Y.; Liu, H.; Zheng, Z.; Ma, S. **A comprehensive Bayesian analysis assessing the effectiveness of lymphocyte immunotherapy for recurrent spontaneous abortion.** *Life Medicine* 2(6), Inad049, 2023.

11 Chen, L.; Peng, Z.; Liu, S.; Li, X.; **Chen, R.**; Ren, Y.; Feng, W.; Yuan, L. **Cyclo[6]aramide-tropylium charge transfer complex as a colorimetric chemosensor for differentiation of intimate and loose ion pairs.** *Organic Letters* 17(24), 5950–5953, 2015.

## PATENTS & INVENTION DISCLOSURES

P1 Zhao, Y.; Lam, E. Y.; **Chen, R.** (HKU). **System and method for broadcasting a performance activity.** *US Patent Application* US 2026/0052281 A1, filed 2025-08-07, published 2026-02-19.

P2 Wang, C.; Lam, E. Y.; Zhu, S.; Wu, J.; **Chen, R.**. **Physics-consistent asynchronous neuromorphic inspection and control system and method.** *Invention disclosure*, HKU Technology Transfer Office, Ref. IP01883, 2026.

P3 Xiao, H.; **Chen, R.**; Xiao, S. **A fast and high-precision cell recognition and segmentation method.** *CN Patent* CN116630970B, filed 2023-06-20, granted 2026-05-05.

P4 Xiao, H.; **Chen, R.**; Xiao, S. **A highly adaptive bright-field cell viability classification algorithm.** *CN Patent* CN116453116B, filed 2023-06-20, granted 2023-09-08.

P5 Xiao, H.; **Chen, R.**; Zhao, X. **A graph network analysis method fusing drug correlation, target action and efficacy based on cell phenotypes.** *CN Patent Application* CN116665768A, filed 2023-06-20, published 2023-08-29.

P6 Xiao, H.; Zhao, X.; **Chen, R.**. **Clinical anticancer drug efficacy prediction system using multi-modal fusion heterogeneous networks.** *CN Patent Application* CN116453707A, filed 2023-04-25, published 2023-07-18.

P7 Ma, S.; Cao, Y.; **Chen, R.**. **A 3D printing apparatus and 3D printing system.** *CN Patent Application* CN110815824A, filed 2019-11-15, published 2020-02-21.

P8 Ma, S.; Cao, Y.; **Chen, R.**. **A 3D printing method, system and product.** *CN Patent Application* CN110920050A, filed 2019-11-15, published 2020-03-27.