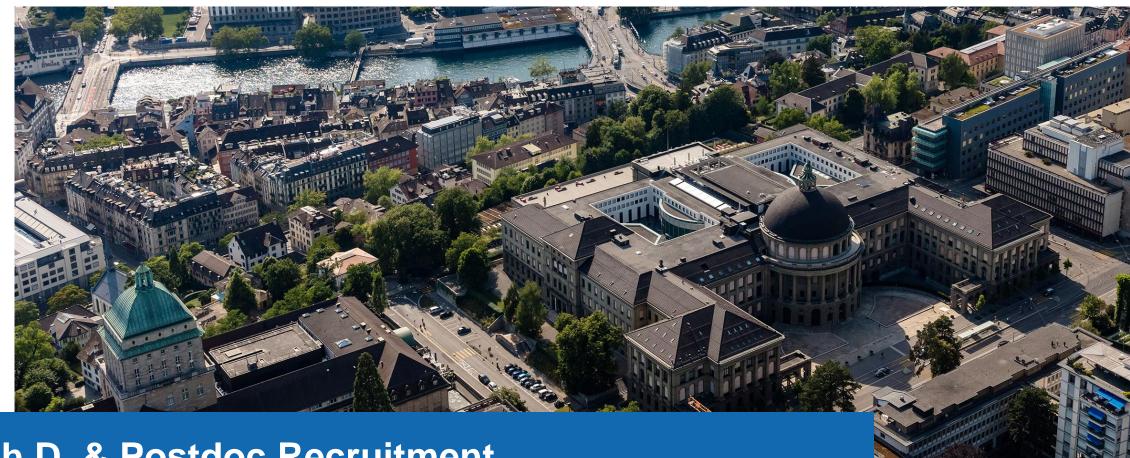
ETH zürich



Ph.D. & Postdoc Recruitment

Energy Efficient Circuits for IoT Systems Group, ETH Zurich **Prof. Taekwang Jang**

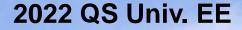
ETH Zurich at a glance

Founded 1855

 Driving force of industrialization in Switzerland

ETH Zurich today

- One of the world's leading universities for technology and the natural sciences
- Place of study, research and employment for 29,000 people from over 120 different countries





- =5 ETH Zurich Swiss Federal Institute of...

 © Zürich, Switzerland
- =5 University of Cambridge

 © Cambridge, United Kingdom
- 7 Harvard University
 © Cambridge, United States
- 8 Nus National University of Singapore (NUS)

 © Singapore, Singapore
- University of Oxford

 © Oxford, United Kingdom

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Harvard University ♥ United States 🕞 Stanford University **♥** United States | ♀ University of California, Berkeley **♥** United States Massachusetts Institute of Technology **♥** United States 🙀 University of Cambridge ♥ United Kingdom 🛛 🚱 University of Oxford 6 ♥ United Kingdom 🛛 😭 **Princeton University ♥** United States 🕞 California Institute of Technology **♥** United States | ♀

ETH Zurich

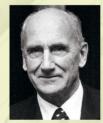
§ Switzerland **§**

Leading the way since 1855



Kurt Wüthrich

In 2002 Kurt Wüthrich received the Nobel Prize in Chemistry for his development of Nuclear Magnetic Resonance Spectroscopy to determine the three-dimensional structure of biological macromolecules in solution.



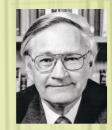
Vladimir Prelog

In 1975 Vladimir Prelog was awarded the Nobel Prize in Chemistry for his work in the field of stereochemistry of organic molecules and reactions.



Leopold Ruzicka

In 1939 Leopold Ruzicka won the Nobel Prize in Chemistry for his work on polymethylene and higher terpene compounds.



Richard Ernst

In 1991 Richard Ernst won the Nobel Prize in Chemistry for his contribution to the development of Nuclear Magnetic Resonance Spectroscopy.



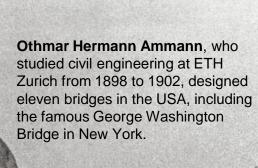
Wolfgang Pauli

In 1945 Wolfgang Pauli received the Nobel Prize in Physics for his discovery of the exclusion principle.



Albert Einstein

In 1921 Albert Einstein was awarded the Nobel Prize in Physics for his discovery of the photoelectric effect.



21 Nobel Prize Winners



Prof. Luca Benini
Digital Circuits and Systems Group
IEEE/ACM Fellow, A. Richard Newton award etc.



Prof. Hua WangIntegrated Devices, Electronics, and Systems *IEEE Fellow, DARPA Director's fellowship etc.*



Prof. Christoph Studer
Integrated Information Processing
NSF Career Award, Google Best Paper Award etc.



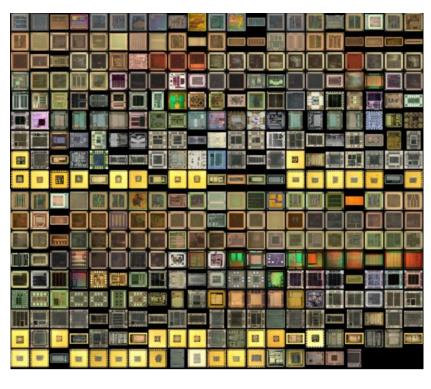
Prof. Taekwang Jang
Energy Efficient Circuits and IoT Systems
TPC in ISSCC/ASSCC, ISSCC European Best Paper Award etc.



Microelectronics Design Center Supports for chip design and testing License, Tools, NDA, PDK, Server management









Introduction

Assistant Professor, ETH Zürich, Switzerland

2018 - Now

- Principal Investigator of Energy Efficient Circuits and IoT Systems Group
 Members (11 Ph.D. + 1 Postdoc)
- Research: Miniaturized computers, Frequency synthesizers, Power converter

Member, Competence Center for Rehabilitation Engineering and Science (RESC)

2020 -Now

Engineer - Senior Engineer, Samsung Electronics Inc., Mixed-Signal Core Design Team

2008 -2013

> PLL designs for application processors, sensors and data transceivers

Ph.D. in Electrical Engineering, University of Michigan

2013 -2017

Circuit and System Designs for Millimeter Scale IoT and Wireless Neural Recording

Highlights

- TPC member of IEEE ISSCC (IMMD), IEEE ASSCC (Analog), TPC subcommittee chair of RFIT (frequency generation)
- Chair of IEEE SSCS Switzerland Chapter
- Raised >3MCHF research grant (PI's share), including SNSF starting, ERC Horizon Digital, NIH Brain Initiative, Innosuisse Proj.
- 67 peer-reviewed conference and journal publications, 57 of which appeared at the flagship conferences and journals including ISSCC, VLSI, CICC, ESSCIRC, ASSCC, JSSC and TCAS
- 14 invited journal papers (JSSC, TCAS-I, SSC-L) from the conference papers
- 14 patents (11 issued in the U.S., 1 issued in the Switzerland and 2 issued in Korea)
- ISSCC 2021 Jan Van Vessem Award for Outstanding European Paper Award
- IEEE Transactions on Circuits and Systems 2009 Guillemin-Cauer Best Paper Award Integrated Systems Laboratory

Application for Ph.D. and Postdoc Positions

Ph.D.

- Recruiting Period: Jan 2023 Oct 2023
- No fixed application and start date
 Apply and start the position at any time
- No school screening process
 Send an email directly to
 tkjang@ethz.ch & kmwettstein@ethz.ch
- Salary: ETH Level 4 (64.5 72.9 kCHF / year)
 https://ethz.ch/en/the-eth-zurich/working-teaching-and-
 https://ethz.ch/en/the-eth-zurich/working-teaching-and-
 research/welcome-center/employment-contract-and-salary/salary.html
- M.S. degree required at the starting date
- Mandatory documents
 CV, Transcript (BS & MS), 2 or more Rec letters
 Any other relevant documents

PostDoc

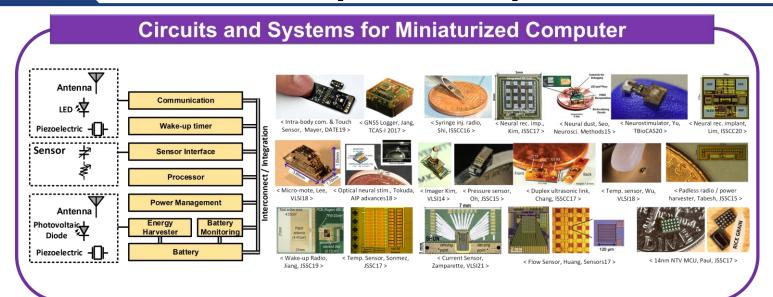
- Recruiting Period: Jan 2023 Aug. 2023
- No fixed application and start date
 Apply and start the position at any time
- No school screening process
 Send an email directly to
 tkjang@ethz.ch & kmwettstein@ethz.ch
- Salary: 89.1 98.1 kCHF / year https://ethz.ch/en/the-eth-zurich/working-teaching-and-

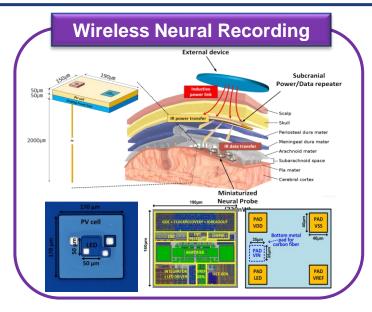
 research/welcome-center/employment-contract-and-salary/salary.html
- Ph.D. degree required at the starting date
- Mandatory documents
 CV, Transcript (BS, MS & PhD), 2 or more Rec letters
 3 Major publications, any other relevant documents

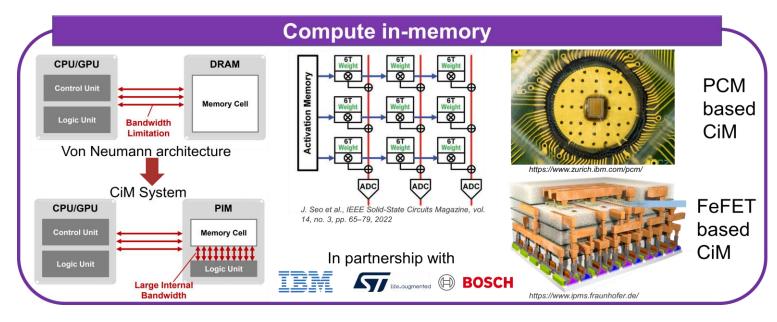
Looking for: Self-motivated, Strong circuits background, Logical thinking, Open-minded, Thinking outside the box

Integrated Systems Laboratory Energy Efficient Circuits and IoT Systems

Research Topics for Open Positions





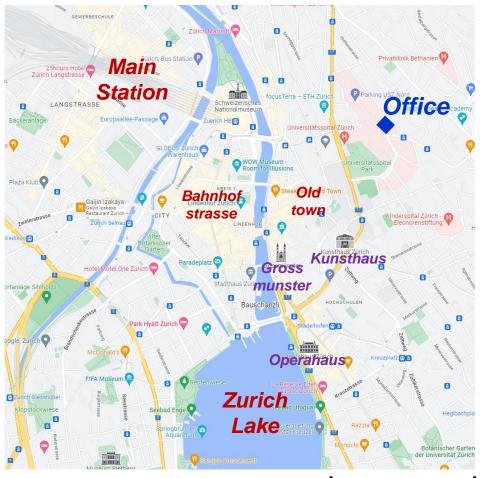






Consider Joining EECIS!

500m





ISSCC 2019



Group Dinner 2022



D-ITET Building



Photo Taken from the Office

Located at the center of Zurich

10 min to major Zurich spots