

4th European Taiwanese Conference for Science and Technology

(2025 歐洲台灣科技人研討會)

13-14 September 2025 / Dresden / Germany



Conference Organizers

- European-Taiwanese Association for Science and Technology (ETAST) e.V.

歐洲台灣科技人協會



會議前言

於歐洲地區生活就業之科學技術相關人士有鑒於聯絡交流之需要自 2022 年六月於德國註冊成立 **European-Taiwanese Association for Science and Technology** (歐洲台灣科技人協會)，預計每年定期於歐洲舉辦年度會議，促進跨領域之間的溝通並推動國際間科技的交流與合作，並幫助台灣科學與技術專業人才融入當地，促進歐洲社會的永續發展，提升台灣整體國際能見度。

今年年度會議，歐洲台灣科技人研討會 (**4th European-Taiwanese Conference for Science and Technology, 2025**) 將於 2025 年九月 13-14 日 (週六及週日) 德國德勒斯登 (**Dresden, Germany**) 由歐洲台灣科技人協會 (**European-Taiwanese Association for Science and Technology**)主辦及 **TU Dresden** 協辦。

Conference Program

POT Gerhart-Potthoff-Bau, Hettnerstraße 1 01069 Dresden, Germany.

13.09.2025 (Saturday)	
8:30-9:20	Conference Registration
9:20-9:30	Conference Opening - Prof. Jian-Jia Chen
9:30-10:10	Keynote I: Prof. Jeronimo Castrillon (TU Dresden) <i>Programming and compiler abstractions in the golden era of computer architecture</i> Keynote II: Prof. Chih-Jen Shih (ETH Zurich) Chair: Prof. Jian-Jia Chen (TU Dortmund)
10:40-11:00	Coffee/Tea Break
11:00-12:30	Invited Speakers (Session A1) (Chair: Dr. Kuan-Hsun Chen (University of Twente)) <ul style="list-style-type: none">• Prof. Dr. Frank Kao (TSMC)• Prof. Lydia Chen (University of Neuchatel and TU Delft)• Steven (I-Cheng) Peng
12:30-13:30	Lunch
13:30-15:00	Semiconductor Business and Industry (Moderator: Joyce Yu (Heraeus Materials Singapore Pte. Ltd.)) <ul style="list-style-type: none">• Dr. Wen-Mei Lin (Infineon)• Yen-Hao Su• Harrison Yuan (Delta Electronics)• Annie Shen (TSMC)
15:00-15:30	Coffee/Tea Break
15:30-16:20	Carrier Forum – Tips on Academia Job Interviews (Chair: Dr. Hsin-Fang Chang (Saarland University)) <ul style="list-style-type: none">• Dr. Zhan-Hong Lin (ETH Zurich)• Dr. Gloria Meng-Hsuan Lin (Max Planck Institute of Molecular Plant Physiology)• Prof. Dr. Jer-Shing Huang (Leibniz Institute of Photonic Technology)
17:00-18:00	ETAST e.V. General Assembly (members only)

14.09.2025 (Sunday)	
9:00-10:20	Keynote III: Dr. Hsin-Fang Chang (Saarland University) Keynote IV: Prof. Yen-Ping Hsueh (Max Planck Institute for Biology Tübingen) Chair: Prof. Tsu-Wei Chen (Humbolt University Berlin)
10:20-10:40	Coffee/Tea Break
10:40-12:00	Invited Speakers (Session A2) (Chair: Prof. Chih-Jen Shih) <ul style="list-style-type: none"> • Prof. Shu-Chen Li (TU Dresden): <i>Lifespan Developmental Cognitive Neuroscience for Age-inclusive Digital Technologies: Some Examples from Tactile Internet with Human-in-the-Loop</i> • Dr. Jung-Chin Chang (University of Utrecht): <i>MASH-in-a-dish: Identifying targetable metabolite crosstalk for fatty liver disease treatment (MASH: metabolic dysfunction-associated steatohepatitis)</i>
12:00-13:30	Lunch
13:30-14:15	Career Panel Discussions - Academia Moderator: Prof. Jian-Jia Chen
14:15-15:00	Career Panel Discussions – Startups Moderator: Joyce Yu (Heraeus Materials Singapore Pte. Ltd.) <ul style="list-style-type: none"> • Prof. Stefan Wagner (University of Vienna) • Prof. Edwin En-Te Hwu (Technical University of Denmark (DTU), Denmark)
15:00-15:10	Closing Prof. Dr. Jian-Jia Chen

**General Assembly of ETAST e.V.*

This event is listed for convenience and is not part of the ETCST 2025 conference program. According to §8.1 of the statute of the ETAST e.V., all members of the ETAST e.V. are eligible to attend the General Assembly and the others can be admitted as guests agreed by the members in the General Assembly

Conference notes:

- If you have any special requests related to the conference, please feel free to reach out to the Organizers, represented by Prof. Jian-Jia Chen and Dr. Hsin-Fang Chang, either before or during the conference.
- To support sustainability, we kindly encourage you to bring your own reusable tableware, including a cup, spoon, fork, and chopsticks, for catering purposes.
- Please ensure that you have your badge with you at all times throughout the conference.

Internet Access



For academics, eduroam connection will work.

About the Speakers and Chairs

1. Prof. Dr. Jian-Jia Chen
2. Prof. Dr. Jeronimo Castrillon
3. Prof. Dr. Chih-Jen Shih
4. Dr. Kuan-Hsun Chen
5. Prof. Dr. Frank (Kuo-Hsing) Kao
6. Prof. Dr. Lydia Chen
7. Steven (I-Cheng) Peng
8. Joyce Yu
9. Dr. Wen-Mei Lin
10. Yen-Hao Su
11. Harrison Yuan
12. Annie Shen
13. Dr. Hsin-Fang Chang
14. Dr. Zhan-Hong Lin
15. Dr. Gloria Meng-Hsuan Lin
16. Prof. Dr. Jer-Shing Huang
17. Prof. Dr. Tsu-Wei Chen
18. Prof. Dr. Yen-Ping Hsueh
19. Prof. Dr. Shu-Chen Li
20. Dr. Jung-Chin Chang
21. Prof. Stefan Wagner
22. Prof. Dr. Edwin Hwu

1. Prof. Dr. Jian-Jia Chen

Department of Informatics, TU Dortmund, Germany.

Jian-Jia Chen

Prof. Dr.

Informatik 12 -Chair for Embedded Systems-
Department of Informatics
Otto-Hahn-Str. 16,
44227, Dortmund, Germany
+49 (231) 755-6078
+49(231) 755-6116
✉ jian-jia.chen@cs.uni-dortmund.de
🌐 daes.cs.tu-dortmund.de/jjchen

Present Work

April, 2014 – Present **University Professor**, Department of Informatics at TU Dortmund, Dortmund, Germany

Education

2001–2006 **Ph.D.**, Department of Computer Science and Information Engineering, National Taiwan University, Taipei, Taiwan

1996–2001 **B.S.**, Department of Chemistry, National Taiwan University, Taipei, Taiwan

Work Experience

May 2010 – **Juniorprofessor (W1 Professor)**, Department of Informatics at Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

March 2014 – **Postdoc**, ETH Zurich, Zurich, Switzerland
Jan. 2008 – **Postdoc**, ETH Zurich, Zurich, Switzerland
Apr. 2010 with Professor Lothar Thiele

Awards and Honors

- European Research Council (ERC) Consolidator Award 2019
- 10+ outstanding and best paper awards in prestigious international conferences
- Institute of Information & Computing Machinery (IICM) Doctoral Dissertation Award, 2006

Biography

My research interests include real-time systems, embedded systems, cyber-physical systems, and resource-aware machine learning. I am a founding member as well as the founding chair of the European-Taiwanese Association for Science and Technology e.V. I have supervised ten (completed) PhD dissertations (among them, seven with *summa cum laude*), in which four of them were recognized by dissertation awards. I have also supervised more than 100 Bachelor, Master, and Diploma thesis projects, in which four of them were recognized by thesis awards.

2. Prof. Dr. Jeronimo Castrillon

Curriculum Vitae

Personal Data

Title	Prof. Dr.-Ing.
First name	Jeronimo
Name	Castrillon Mazo
Current position	Professor
Current institution(s)/site(s), country	Chair for Compiler Construction, TU Dresden, Dresden, Germany
Identifiers/ORCID	0000-0002-5007-445X

Qualifications and Career

Stages	Periods and Details
Degree programme	Electronic Engineering, 1999–2004, Medellín, Colombia
Doctorate	04.2013, Prof. Dr.-Ing. Rainer Leupers, RWTH Aachen, Germany
Stages of academic/professional career	2014–today: Computer Science Professor, Chair for Compiler Construction, TU Dresden 2023–today: Group Leader and Adjunct Professor, Barkhausen Institute. 2014–2021: Co-Founder and Advisor for Silexica GmbH 2013–2014: Post-doctoral researcher, Institute for Communication Technologies and Embedded Systems (ICE), RWTH Aachen

Activities in the Research System

- Chairing and co-chairing, e.g., co-chair, “International Conference on Compilers, Architecture, and Synthesis of Embedded Systems” (CASES), 2024; topic chair and co-chair, “D9 Architectural and Microarchitectural Design”, International Conference on Design Automation & Test in Europe (DATE), 2021–2023; and student travel grant chair, “Symposium on Code Generation and Optimization” (CGO), 2023.
- Member of Technical Program Committees, e.g., International Symposium on Code Generation and Optimization (CGO), 2019, 2022, 2024; International European Conference on Parallel and Distributed Computing (Euro-Par), 2017, 2023–2024; International Conference on Compilers, Architecture, and Synthesis of Embedded Systems (CASES), 2016–2024; ACM SIGPLAN/SIGBED Conference on Languages, Compilers, Tools and Theory for Embedded Systems (LCTES), 2018–2019, 2022, 2024; International Conference on Design Automation & Test in Europe (DATE), 2016–2023; and International Design Automation Conference (DAC), 2018–2021.
- Member of the editorial board of the ACM Transactions on Design Automation of Electronic Systems (TODAES) since 2023.
- Regular reviewer for ACM Transactions on Computer Systems (TOCS), ACM Transactions on Embedded Computing Systems (TECS), ACM Transactions on Design Automation of Electronic Systems (TODAES), IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems

(TCAD), IEEE Transactions on Computers (TC), IEEE Transactions on Parallel and Distributed Systems (TPDS), among others.

- Since 2021: Member and deputy head of the “Prüfungsausschuss Informatik-Studiengänge” at TU Dresden.
- Since 2023: Deputy head of the Software Campus (SWC3) Germany-wide (<https://softwarecampus.de>).
- Since 2019: Coordinator of the Software Campus project (SWC2-SWC3) (<https://softwarecampus.de>) for the TU Dresden.
- Since 2017: Member of the “Eignungsfeststellungskommission” for the Masters program in Computer Science and “Medieninformatik”.

Supervision of Researchers in Early Career Phases

PhD and Postdoctoral supervision (selected)

- 2015-2021 (PhD): Dr. Andres Goens, now assistant professor at the University of Amsterdam.
- 2017-2021 (PhD): Dr. Sebastian Ertel, now postdoctoral researcher at the Barkhausen Institut.
- 2015-2019 (Postdoc): Dr. Sven Karol, now professor at the Fachhochschule Magdeburg.

Current supervision

Currently supervising 11 PhD students, co-supervising 2 remote PhD students, and supervising 2 postdoctoral researchers.

Scientific Results

Category A

- [1] João Paulo C. de Lima, Asif Ali Khan, Hamid Farzaneh, and Jeronimo Castrillon. “Full-Stack Optimization for CAM-Only DNN Inference”. In: *Proceedings of the 2024 Design, Automation and Test in Europe Conference (DATE)*. DATE’24. Valencia, Spain: IEEE, Mar. 2024, pp. 1–6.
- [2] Carlos Escuin, Asif Ali Khan, Pablo Ibáñez-Marín, Teresa Monreal, Jeronimo Castrillon, and Víctor Viñals-Yúfera. “Compression-Aware and Performance-Efficient Insertion Policies for Long-Lasting Hybrid LLCs”. In: *the 29th IEEE International Symposium on High-Performance Computer Architecture (HPCA’23)*. IEEE. Los Alamitos, CA, USA: IEEE Computer Society, Mar. 2023, pp. 179–192. DOI: [10.1109/HPCA56546.2023.10070968](https://doi.org/10.1109/HPCA56546.2023.10070968). URL: <https://doi.ieeecomputersociety.org/10.1109/HPCA56546.2023.10070968>.
- [3] Felix Suchert, Liza Zeidler, Jeronimo Castrillon, and Sebastian Ertel. “ConDRust: Scalable Deterministic Concurrency from Verifiable Rust Programs”. In: *37th European Conference on Object-Oriented Programming (ECOOP 2023)*. Ed. by Karim Ali and Guido Salvaneschi. Vol. 263. Leibniz International Proceedings in Informatics (LIPIcs). Seattle, Washington, USA: Schloss Dagstuhl – Leibniz-Zentrum für Informatik, July 2023, 33:1–33:39. ISBN: 978-3-95977-281-5. DOI: [10.4230/LIPIcs.ECOOP.2023.33](https://doi.org/10.4230/LIPIcs.ECOOP.2023.33). URL: <https://drops.dagstuhl.de/opus/volltexte/2023/18226>.
- [4] Stephanie Soldavini, Karl F. A. Friebel, Mattia Tibaldi, Gerald Hempel, Jeronimo Castrillon, and Christian Pilato. “Automatic Creation of High-Bandwidth Memory Architectures from Domain-Specific Languages: The Case of Computational Fluid Dynamics”. In: *ACM Transactions on Reconfigurable Technology and Systems (TRETs)* (Sept. 2022). ISSN: 1936-7406. DOI: [10.1145/3563553](https://doi.org/10.1145/3563553). URL: <https://doi.org/10.1145/3563553>.

- [5] Alexander Brauckmann, Andrés Goens, and Jeronimo Castrillon. "PolyGym: Polyhedral Optimizations as an Environment for Reinforcement Learning". In: *Proceedings of the 30th International Conference on Parallel Architectures and Compilation Techniques (PACT)*. Sept. 2021, pp. 17–29. DOI: [10.1109/PACT52795.2021.00009](https://doi.org/10.1109/PACT52795.2021.00009). URL: <https://ieeexplore.ieee.org/document/9563041>.
- [6] Nesrine Khouzami, Friedrich Michel, Pietro Incardona, Jeronimo Castrillon, and Ivo F. Sbalzarini. "Model-based Autotuning of Discretization Methods in Numerical Simulations of Partial Differential Equations". In: *Journal of Computational Science* 57 (Dec. 2021), pp. 1–11. ISSN: 1877-7503. DOI: [10.1016/j.jocs.2021.101489](https://doi.org/10.1016/j.jocs.2021.101489). URL: <https://www.sciencedirect.com/science/article/pii/S1877750321001563>.
- [7] Adam Siemieniuk, Lorenzo Chelini, Asif Ali Khan, et al. "OCC: An Automated End-to-End Machine Learning Optimizing Compiler for Computing-In-Memory". In: *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)* (July 2021). ISSN: 1937-4151. DOI: [10.1109/TCAD.2021.3101464](https://doi.org/10.1109/TCAD.2021.3101464). URL: <https://ieeexplore.ieee.org/document/9502921>.
- [8] Robin Blasing, Asif Ali Khan, Panagiotis Ch. Filippou, et al. "Magnetic Racetrack Memory: From Physics to the Cusp of Applications within a Decade". In: *Proceedings of the IEEE* (Mar. 2020), pp. 1–19. ISSN: 0018-9219. DOI: [10.1109/JPRDC.2020.2975719](https://doi.org/10.1109/JPRDC.2020.2975719). URL: <https://ieeexplore.ieee.org/document/9045991>.
- [9] Jeronimo Castrillon and Rainer Leupers. *Programming Heterogeneous MPSoCs: Tool Flows to Close the Software Productivity Gap*. Springer, 2014.
- [10] Jeronimo Castrillon, Rainer Leupers, and Gerd Ascheid. "MAPS: Mapping Concurrent Dataflow Applications to Heterogeneous MPSoCs". In: *IEEE Transactions on Industrial Informatics* 9.1 (Feb. 2013), pp. 527–545. ISSN: 1551-3203. DOI: [10.1109/TII.2011.2173941](https://doi.org/10.1109/TII.2011.2173941).

Academic Distinctions

- CASES-2023 Outstanding Reviewer Award.
- ECOOP 2023 Distinguished Artifact Award, for "*ConDRust: Scalable Deterministic Concurrency from Verifiable Rust Program (Artifact)*" with authors Felix Suchert, Lisza Zeidler, Jeronimo Castrillon and Sebastian Ertel
- Best Paper Award nomination at the International Forum on specification & Design Languages (FDL'20) and Two Best Paper Award nominations at the International Conference on Design Automation & Test in Europe (DATE'20).
- Selected as a member of the ACM Future of Computing Academy (FCA), and member of its committee board (2017–2019).
- Intel Doctoral Student Honor Award, 2012.

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3. Prof. Dr. Chih-Jen Shih

Institute for Chemical and Bioengineering, ETH, Zürich, Switzerland.

Chih-Jen Shih

Professor of Chemical Engineering
ETH Zürich
Head of Institute for Chemical and Bioengineering
Vladimir-Perlog-Weg 1
ETH Hönggerberg, HCI E137
CH - 8093 Zurich, Switzerland

Phone: +41-44-633-42-40
E-mail: chshih@ethz.ch
Website: <http://www.shihlab.ethz.ch/>

ACADEMIC APPOINTMENTS

- 2022 - Associate Professor (tenured), Institute for Chemical and Bioengineering, Department of Chemistry and Applied Biosciences, ETH Zürich, Switzerland
- 2015 - 2021 Assistant Professor (tenure-track)
- 2014 - 2015 Postdoctoral Research Associate, with Prof. Zhenan Bao, Department of Chemical Engineering, Stanford University, USA
- 2010 - 2014 Graduate Research Fellow, with Profs. Daniel Blankschtein and Michael Strano, Department of Chemical Engineering, Massachusetts Institute of Technology (MIT), USA

EDUCATION

- 2014 Ph.D., Chemical Engineering, MIT, Cambridge, USA
- 2004 M.S., Chemical Engineering, NTU, Taipei, Taiwan
- 2002 B.S., Chemical Engineering, NTU, Taipei, Taiwan

HONORS

- 2024 Consolidator Grant, Swiss National Science Foundation
- 2019 Starting Grant, European Research Council
- 2018 Best Paper Award, International Display Workshops, Society for Information Display, Japan.
- 2017 Ružička Prize, ETH Zürich, Switzerland.
- 2017 Influential Researcher 2017, Ind. Eng. Chem. Res., American Chemical Society, USA.
- 2017 Victor K. LaMer Award, Colloid & Surface Chemistry Division, American Chemical Society, USA.
- 2017 Emerging Investigator 2017, J. Mater. Chem., Royal Society of Chemistry, UK.
- 2013 Outstanding Graduate Teaching Assistant Award, MIT, USA.
- 2011 Chyn Duog Shiah Memorial Fellowship, MIT, USA.
- 2009 David H. Koch Fellowship, MIT, USA.

PROFESSIONAL SERVICE

- 2021 - pres. Associate Editor, *Frontiers in Chemical Engineering*, Frontiers Media, Switzerland.
- 2017 - pres. Editorial Board Member, *Scientific Reports*, Nature Publishing Group, UK.
- 2017 - pres. Proposal Reviewer, Swiss National Science Foundation, Switzerland.
- 2017 - pres. Proposal Reviewer, American Chemical Society Petroleum Research Fund (ACSPFR), USA.
- 2017 - pres. Proposal Reviewer, Department of Energy (DOE), USA.
- 2016 - pres. Proposal Reviewer, National Science Foundation, USA.
- 2019 Session Chair, Division of NanoDisplays and Nanotechnology Application, IDW '19, Japan.
- 2019 Session Chair, Division of Colloidal and Surface Chemistry (COLL), ACS 257th Meeting, USA.
- 2017 Panel Reviewer, MaP Award 2017, ETH Zürich, Switzerland.
- 2017 Proposal Reviewer, American Chemical Society Petroleum Research Fund (ACSPFR), USA.
- 2017 Organizer, Raman Microscopy Workshop, ETH Hönggerberg, Switzerland.
- 2016 Poster Jury, MaP Graduate Symposium 2016, ETH Zürich, Switzerland.
- 2016 Panel Reviewer, The Branco Weiss Fellowship, Society in Science, ETH Zürich, Switzerland.
- 2014 Panel Reviewer, SBIR / STTR Grants, National Science Foundation, USA.

4. Dr. Kuan-Hsun Chen

Department of Computer Science, University of Twente, The Netherlands.

Dr.-Ing. Kuan-Hsun Chen

Tenured Assistant Professor at UTwente

✉ twkuanhsun.chen@gmail.com

🌐 <https://khchen.eu/>

Present Work

Since Sep. 2021 **Assistant Professor (UD1, tenured)**, *Computer Architecture for Embedded Systems (CAES) group, University of Twente, the Netherlands.*

- Appointed member of **Young Academy Twente (YAT)** since 2024 for 4 years
- Elected member and research committee chair of faculty council for the faculty of electrical engineering, mathematics and computer science (2022 – 2024)
- Parental leave: Oct 3–21, 2022 and Feb 8–24, 2023

Education

2015 – 2019 **Dr.-Ing. in Computer Science**, *TU Dortmund University, Germany.*

2011 – 2013 **M.Sc in Computer Science**, *National Tsing Hua University, Taiwan.*

2007 – 2011 **B.A. in Humanities and Social Sciences**, *National Tsing Hua University, Taiwan.*

Professional Experience

Aug. 2019 – **Postdoctoral Researcher**, *at the Chair of Design Automation for Embedded Systems, Aug. 2021 TU Dortmund University, Germany.*

Apr. 2014 – **Research Associate**, *at the Chair of Design Automation for Embedded Systems, TU Jul. 2019 Dortmund University, Germany.*

Mar. 2013 – **Research Associate**, *at the Chair of Micro Hardware Technologies for Automation, Mar. 2014 Karlsruhe Institute of Technology, Germany.*

Awards and Honours

2024-2028 **Appointed Member of Young Academy Twente**, University of Twente, 2024-2028

2025 **Best Paper Nomination** in International European Conference on Parallel and Distributed Computing (Euro-Par)

2024 **Outstanding Reviewer Award**, ACM International Conference on Hardware/Software Codesign and System Synthesis (CODE+ISSS)

2023 **Best Paper Award** in Euromicro Conference on Real-Time Systems (ECRTS)

2023 **ASCI Research Schools Educational Grant** for "**Design and Implementation of Real-Time Systems**", Recipient

2022 **4TU.NIRICT Community Funding**: Dutch Real-Time Systems

Short Bio

Kuan-Hsun Chen is a tenured assistant professor at the Computer Architecture for Embedded Systems Group in University of Twente (NL). His work addresses issues concerning safety, predictability and resource management. He has published 80+ scientific works in top peer-reviewed journals (e.g., TC, TCAD and TECS) and international conferences (e.g., EMSOFT, RTSS, RTAS, DAC, DATE). Additionally, he actively participates as a member of several Technical Program Committees for premier conferences and contributes as a reviewer for various peer-reviewed journals in the field of computer science and engineering. He earned his Ph.D. (Dr.-Ing.) with the highest distinction in Computer Science (2019) from TU Dortmund University, Germany. He currently serves as Associate Editor for the IEEE Nanotechnology Magazine.

7. Steven (I-Cheng) Peng

I-CHENG PENG

pengic@umich.edu | DE +49 152-378-19881 | USA +1 734-680-4502

EXPERIENCE

Infineon Technologies AG <i>Senior Staff Engineer, Process Control Management & Foundry Tape-out Support</i>	Munich, Germany June 2022 - Present
<ul style="list-style-type: none">• Led interdepartmental teams in executing layout-to-mask workflow, preparing mask data, placing process control circuits, coding test program and analyzing post-silicon data for both in-house tape-out and outsourcing foundries tape-out• Managed 10 Multi-Project Wafer (MPW), 27 Single Product tape-out for 200 mm & 300 mm Fab on different technologies• Developed internal Process Data Link Database System by Python to integrate interdepartmental information• Generated new layer redesign to improve 80% work time than existing workflow on 85 PCM modules for 11 different products• Documented 78 modules by drawing circuit schematics and categorized 200+ devices in the correct Product Design Kits	
Globalfoundries Inc. <i>SRAM Design Engineer</i>	Dresden, Germany February 2020 – February 2022
<ul style="list-style-type: none">• Designed 253 SRAM Measurement Circuits & Layouts to deliver 20 Bit Cell Kits on 22nm/28nm Technology• Designed Next Generation Magnetoresistive Random Access Memory (RAM) & Resistive RAM Structure• Invented Measurement Structure to boast 80% area efficiency connecting 20 different DUTs with shared pad connection• Conducted Layout Analysis, and SRAM Parameterization Modeling on 25 products on 22nm/55nm Technology• Spotlight Award: held a Career Talk to support Talent Acquisition efforts for 38 attendants in the Dresden Taiwan Association	
Globalfoundries Inc. <i>Process Integration Engineer and Design Rule Development</i>	Malta, NY October 2016 - January 2020
<ul style="list-style-type: none">• Co-led interdepartmental teams in planning, executed, and implemented experiments in 14nm Fin/PC modules to reduce defects, improved device performance and product yield• Analyzed in-line, end-of-line (DC test, yield) data for defect & device performance improvement projects; presented findings to upper management• Developed Density, Design Automation Libraries on Chip Density Rules, BEOL, Frame and Fill Design Rules on the cutting-edge technology: FinFET Technology (7nm, 14nm), FD-SOI Technology (12nm, 22nm)• Designed Analog Polysilicon Density Rule to improve density from 65% to 80% to support customer compaction effort• Achieved the lowest Product Design Kit bug rate 1.5 % among 13 experienced engineers; Awarded Appreciation Honorary	
TSMC Technology Inc. <i>SRAM Design Engineer, Research Intern</i>	San Jose, CA June 2015 - August 2015
<ul style="list-style-type: none">• Collaborated with a team of 10 members to design SRAM on 10 nm/16 nm FinFET technologies• Simulated various read/write assist schemes by Synopsys Finesim for 10 nm/16 nm FinFET model and analyzed Static Noise Margin, Read/Write Margin and related delay time by Synopsys Custom Waveview	

EDUCATION

UNIVERSITY OF MICHIGAN Master of Science in Electrical and Computer Engineering, GPA 3.31/4.00	Ann Arbor, MI September 2014 - April 2016
<ul style="list-style-type: none">• Courses: VLSI Design I/II, Digital Signal Processing, Digital Integrated Technology, Database Management Systems, Algorithm	
TECHNICAL UNIVERSITY OF MUNICH Exchange Student Scholarship in Electrical Engineering, GPA 3.74/4.00	Munich, Germany March 2012 - September 2012
<ul style="list-style-type: none">• Courses: Electronics Design Automation, Network Planning, German Intensive A1	
NATIONAL CHIAO TUNG UNIVERSITY Bachelor of Science in Electrical and Computer Engineering, GPA 3.80/4.00	Hsinchu, Taiwan September 2008 - February 2012
<ul style="list-style-type: none">• Honors: 3 times Academic Achievement Award (top 3/105 students for 3 consecutive semesters)• Best Presenter, TSMC & National Nano Device Laboratory Semiconductor Elite Camp	

LEADERSHIP

Representative, Electronica Taiwanese Dinner, the Monte Jade Europe Science & Technology Association	2024
Professional Speaker, Career Forum, European Taiwanese Conference for Science and Technology, Berlin	2022
Professional Speaker, Career Talk, Dresden Taiwan Association	2021
Bronze Medal, Basketball Tournament, Taiwan National Day, New York City	2019
Fundraiser Volunteer, 100 Mile Bike Ride, Cure De Tour, American Diabetes Association, New York State	2018
Albany Representative, Michigan Alumni Leadership Workshop, Ann Arbor, Michigan	2017

SKILLS

Circuit Design: Cadence Virtuoso, Synopsys Finesim, Hspice, Encounter (APR), Verilog-RTL
Programming: C, C++, Java, SQL, Perl, Linux, Python, Matlab, Assembly Language
Verification: Calibre RVE, Sage iDRM, KLayout
Language: Mandarin (Native), English (Fluent), German (Beginner)

8. CHIA-JU (Joyce) YU, M.Sc.Eng., MBA

Profile

International business strategist with over 18 years of experience in **semiconductors, photonics, and advanced packaging**. Expertise in **corporate strategy, M&A, product management, and global partnerships** across Europe and Asia. Proven track record in market intelligence, technology scouting, and cross-cultural leadership.

Professional Experience

Head of Marketing Strategy – Heraeus | *Technology & Marketing Strategy* | Singapore | 2025–Present

- Lead the global team of marketing strategy, technology scouting and market intelligence.
- Conduct technology innovation, IP analysis, and M&A strategy.
- Managing product portfolios in photonics and advanced packaging.

Senior Strategy Director *Corporate Strategy* | Singapore | 2023–2025

- Conducted global market research on **EUV lithography optics and photonics**.
- Evaluated M&A targets, executed due diligence, and developed product roadmaps.
- Delivered global training webinars (200+ attendees) on semiconductor strategy.

Director, Strategy Management – *Nexperia Germany GmbH (ex-NXP)* (2018–2023)

- Led global strategy and business development for foundries & OSATs.
- Negotiated strategic partnerships with **Apple, Intel, Qualcomm, Bosch, Huawei**.
- Managed supply chain risk and government relations in Europe & China.

Marketing Manager, Asia-Pacific – *STMicroelectronics* (2006–2018)

- Managed \$100M annual revenue in automotive power & sensing semiconductors.
- Built partnerships with top OEMs (Apple, HP, Bosch, Foxconn).
- Drove new market exploration: IoT, Smart Power, Autonomous Driving, VR, Solar.

13. Dr. Hsin-Fang Chang

Physiology Institute, Saarland University

Curriculum Vitae Dr. Hsin-Fang Chang

Personal Data

Title	Dr. rer. nat.
First name, Name	Hsin-Fang, Chang
Current position	Research group leader (tenure)
Current institution(s)/site(s), country	Department of Cellular Neurophysiology, the Center for Integrative Physiology and Molecular Medicine (CIPMM), Saarland University (UdS), Homburg, Germany
Identifiers/ORCID	0000-0002-7691-4090

Qualifications and Career

Stages	Periods and Details
Stages of academic/ professional career	08/2024-07-2027 Adjunct Visiting Associate Professor at Kaohsiung Medical University (KMU), Taiwan 05/2021-present Postdoctoral Fellow (WISNA tenure, positive evaluated), Department of Cellular Neurophysiology, CIPMM, Faculty of Medicine, Saarland University, Germany 05/2019-04/2021 Postdoctoral Fellow, WISNA tenure position. Department of Cellular Neurophysiology, CIPMM, Faculty of Medicine, Saarland University, Germany 02/2017-04/2019 Postdoctoral Fellow, Institute for neuroimmunology and multiple sclerosis research, University medical center Göttingen, Germany
Dr. rer. nat. (summa cum laude)	05/2012 - 06/2017 DFG scholarship. 'GK1326-Calcium-Signaling and Cellular Nanodomains'. Physiology, Saarland University, Germany
Master of Science	09/2010 - 07/2011 Fragrance and Cosmetic Science, Kaohsiung Medical University, Taiwan
Bachelor of Science	09/2006 - 07/2010 Fragrance and Cosmetic Science, Kaohsiung Medical University, Taiwan

Biography:

Dr. Hsin-Fang Chang is a tenured group leader at Saarland University (USAAR), Germany. She earned her PhD in Physiology with the highest distinction (summa cum laude) in 2017 and received the Calogero Pagliarello-Studienspreis for her outstanding dissertation. She then completed postdoctoral training at the Multiple Sclerosis Research Institute, University Medical Center Göttingen. In 2019, she was appointed to a WISNA tenure position at the Center for Integrative Physiology and Molecular Medicine (CIPMM), and after a successful evaluation in 2021, became a tenured group leader.

She has secured multiple grants and supervised six PhD students, as well as Master's and Diploma theses. Her research focuses on cytotoxic T cell biology, synaptic vesicle endo- and exocytosis, and T cell-mediated cytotoxicity in cancer, neuroinflammation and neurodegeneration. She teaches physiology to medical, dental, and pharmacy students at the Faculty of Medicine and serves as an examiner for the German national medical examination (Physikum).

Dr. Chang leads subprojects in major research consortia, including SFB 894 and the ERC Synergy Grant CANCER ATTACK. Beyond her research, she co-founded and currently serves as vice chair of the European Taiwanese Science and Technology Association (ETSTA), fostering the development of young researchers and strengthening scientific collaboration between Europe and Taiwan.

14. Dr. Zhan-Hong Lin

15. Dr. Gloria Meng-Hsuan Lin (林孟萱)

Dr. Gloria Meng-Hsuan Lin (林孟萱)
Researcher

Postdoctoral

Email: Gloria.Meng-Hsuan.Lin@mpimp-golm.mpg.de

ORCID:0000-0002-5764-0012

POSTDOCTORAL RESEARCH EXPERIENCE

Feb. 2025 – Present **Max Planck Institute of Molecular Plant Physiology**. Department: Root Biology and Symbiosis; Group: Receptor Structures at the Plant-Microbe Interface. Group leader: Dr. Alexander Förderer.

Feb. 2022 – Dec. 2024 Dept. of Microbiology and Molecular Medicine, University of Geneva, Geneva, Switzerland. Supervisor: Prof. Dominique Soldati-Favre.

Nov2023, Feb-Mar 2024 Visiting Researcher. Imperial College London. Collaborating with Prof. Steve J. Matthews.

Feb. 2021 – Jan. 2022 Dept. of Agricultural chemistry, National Taiwan university, Taipei, Taiwan

MAIN FOCUS

My academia identity is a structural biologist with general interests on the relationships between microbes and their hosts. I am always fascinated by the species wise interactions and amazed by the beauty of biomolecules' natural designs. With my molecular and structural biological experience about the interaction between medical pathogens and human hosts, now I aim to decipher **how legume plants drive the directions to rhizobia or mycorrhizal symbiosis via the protein structural aspects**. For publication list, please see the ORCID.

EDUCATION

2021 PhD: Genome and systems biology degree program, Academia sinica and National Taiwan university, Taipei, Taiwan (Sep. 2014 - Jan. 2021)

Thesis: Structural and functional elucidations of intracellular pathogens derived-effector proteins: macro domains from coronaviruses; host cellular apoptosis regulated protein PDCD5 and Cyclophilin 18 from *Toxoplasma gondii*. **Date of defense: 15. Dec. 2020**

2014 MS: Department of Parasitology, College of Medicine, National Taiwan university, Taipei, Taiwan (Sep. 2012 - Jun. 2014)

2012 BS: School of Medical laboratory science and biotechnology, Taipei medical university, Taipei, Taiwan (Sep. 2008 - Jun. 2012)

RESEARCH SOCIETY SERVICES

May 2024 **Chairperson** of session "Cell biology1" in International Congress on Toxoplasmosis

Public health survey Jul 2011 Summer student medical volunteer program in Swaziland

HONORS, AWARDS, SCHOLARSHIPS & FUNDS

Thesis Award, Biochemistry group, Chemistry National Meeting, Taiwan, 2021

2021 Higher education SPROUT project Postdoc Salary award (equals to 1810 EUR*13) Donor: Ministry of Education, Taiwan

16. Prof. Dr. Jer-Shing Huang

Leibniz Institute of Photonic Technology, Jena, Germany

Curriculum Vitae of Jer-Shing Huang

Affiliation

Research Department of Nanooptics
Leibniz Institute of Photonic Technology
Albert-Einstein Str. 9, 07745 Jena, Germany



Personal Data

Place of Birth: Kaohsiung City, Taiwan
Nationality: Taiwanese
Email: jer-shing.huang@leibniz-ipht.de

Professional Career

- 07.2019 - present **Department Head**, Research Department of Nanooptics, Leibniz Institute of Photonic Technology, Jena, Germany
- 07.2018 - present **Habilitation**, Faculty of Chemistry and Earth Science, Friedrich-Schiller Universität Jena, Germany
Habilitation thesis: "Functional Plasmonic Nanostructures for Nanoscale Light-Matter-Interaction: Fundamentals, Design, and Applications."
- 06.2018 - present Adjunct Professor, Department of Electrophysics, National Chiao Tung University, Taiwan
- 05.2017 - present Adjunct Research Fellow, Research Center for Applied Science, Academia Sinica, Taiwan
- 12.2016 - present Principal Scientist, Abbe Center of Photonics, Friedrich-Schiller-Universität Jena, Germany
- 11.2016 - 07.2019 **Research Group Leader**, Leibniz Institute of Photonic Technology, Jena, Germany
- 09.2016 - 09.2016 Guest Professor, Abbe Center of Photonics, Friedrich-Schiller-Universität Jena, Germany
- 08.2015 - 10.2016 **Associate Professor** (tenured), Department of Chemistry, National Tsing Hua University, Taiwan
- 08.2010 - 08.2015 **Assistant Professor**, Department of Chemistry, National Tsing Hua University, Taiwan
- 03.2007 - 06.2010 **Postdoctoral**, Experimental Physics V (Biophysics), University of Würzburg, Germany
Research focus: Plasmonics, Ultrafast nanooptics, Advanced nanofabrication
Supervisor: Prof. Dr. Bert Hecht
- 09.2004 - 02.2006 **Postdoctoral**, Institute of Atomic and Molecular Science, Academia Sinica, Taiwan
Research interests: Single-molecule Microscopy, Dye-sensitized solar cells
Supervisor: Prof. King-Chuen Lin

Education

- 09.1998 - 06.2004 **Ph.D.**, Department of Chemistry, National Taiwan University
Field of study: Physical Chemistry, Applied Spectroscopy, Single-molecule Microscopy
Ph.D. thesis: "Development of liquid sampling and correlation methods for laser-induced breakdown spectroscopy." Supervisor: Prof. King-Chuen Lin
- 09.1994 - 06.1998 **Bachelor of Science**, Department of Chemistry, National Taiwan University
Research project: "Design and applications of membrane dryer systems for organic sample detection using inductively-coupled plasma mass spectroscopy."

Professional Organizations

- 2022-present **Editor-in-Chief** of *OPTIK-International Journal for Light and Electron Optics* (Elsevier)
- 2022-present **Associate Editor** of *Journal of Chinese Chemical Society* (Wiley)
- 2015-present **Editorial Advisory Board Member** of *ACS Photonics* (ACS)

Research Field & Interest

Field: Optics, Physical Chemistry, Microscopy, Spectroscopy

Interest: Nanoantennas, Directional photon source, Metasurfaces, Chiral and Nonlinear Nanooptics, Optical Nanosensors, Fluorescent Polymer Microcavities, Nanofabrication

17. Prof. Dr. Tsu-Wei Chen

Intensive Plant Food Systems of Faculty of Life Science at Humboldt Universität zu Berlin



Prof. Dr. Tsu-Wei Chen

Tsu-Wei Chen holds the renowned DFG Emmy Noether Program and is professor of Intensive Plant Food Systems of Faculty of Life Science at Humboldt Universität zu Berlin since September 2020. His research group works on up-scaling the environmental effects on leaf photosynthesis to canopy level using modelling approaches and systems analyses. His interdisciplinary collaboration partners include computer scientists, mathematicians and plant breeders. Besides classical modelling approaches, he is specialized in functional-structural plant models, which he uses to analyze the triple feedbacks between environmental triggers, dynamic canopy architectures and physiological functions. His research focusses on model-assisted high-throughput phenotyping and physiological mechanisms optimizing canopy photosynthesis through acclimation strategies.

Experience


2020. Sep. -	Tenured Associate Professor (W2) for Intensive Plant Food Systems DFG Emmy Noether Program Humboldt Universität zu Berlin, Albrecht Daniel Thaer-Institute
2019 Sep. - 2020. Aug.	Junior Group Leader Leibniz Universität Hannover, Institute of Horticultural Production Systems, Junior Group of "Photo-physiology of Cultivated Plants"
2012 Oct. - 2019 Aug.	Senior Scientist Leibniz Universität Hannover, Institute of Horticultural Production Systems, Department of Systems Modelling of Vegetable Science
2015 Oct. - 2017 Mar.	Post-Doc Institut National de la Recherche Agronomique, Montpellier, LEPSE. Supervisor: Dr. François Tardieu

18. Prof. Dr. Yen-Ping Hsueh



Yen-Ping Hsueh, PhD
Max Planck Institute for Biology Tübingen



✉ yphsueh@tuebingen.mpg.de  [fungalwormlab](http://fungalwormlab.mpg.de)

📍 Max-Planck-Ring 5, 72076 Tübingen, Germany

Academic Positions

2024- Director, Max Planck Institute for Biology Tübingen, Tübingen, Germany
2015-2024 Assistant, Associate, and Research Fellow, Institute of Molecular Biology,
 Academia Sinica, Taipei, Taiwan
2010-2015 Postdoctoral Research Fellow, Caltech, Pasadena, CA, USA
2008-2010 Postdoctoral Research Fellow, Duke University, Durham, NC, USA

Education

2008 Ph.D. Duke University, Durham, NC, USA
2003 M.Sc. National Taiwan University, Taipei, Taiwan
2001 B.Sc. National Taiwan University, Taipei, Taiwan

Publications

See [here](#) for online list.

*Corresponding author

- Chang HW, Lin HC, Yang CT, Tay RJ, Chang DM, Tung YC, **Hsueh YP***. Cuticular collagens mediate cross-kingdom predator-prey interactions between trapping fungi and nematodes. **PLoS Biology** 2025 23 (7), e3003178.
- Kuo CY, Tay RJ, Lin HC, Juan SC, Vidal-Diez de Ulzurrun G, Chang YC, Hoki J, Schroeder FC, **Hsueh YP***. The nematode-trapping fungus *Arthrobotrys oligospora* detects prey pheromones via G protein-coupled receptors. **Nature Microbiology** 2024
- Lin HC, Vidal-Diez de Ulzurrun G, Chen SA, Yang CT, Tay RJ, Lizuka T., Huang TY, Kuo CY, Gonçalves AP, Lin SY, Chang YC, Stajich J, Schwarz EM, **Hsueh YP***. Key processes required for the different stages of fungal carnivory by a nematode-trapping fungus. **PLoS Biology** 2023 21(11): e3002400. (Cover).
 - [EurekAlert](#)
 - [National Geographic](#)
- Lee CH, Lee YY, Chang YC, Pon WL, Lee SP, Wali N, Nakazawa T, Honda Y, Shie JJ, **Hsueh YP***. A carnivorous mushroom paralyzes and kills nematodes via a volatile ketone. **Science Advances** 2023; 9(3) eade4809.
 - [The New York Times](#)
 - [Scientific American](#)
- Chen SA, Lin HC, **Hsueh YP***. The cAMP-PKA pathway regulates prey sensing and trap morphogenesis in the nematode-trapping fungus *Arthrobotrys oligospora*. **G3 Genes|Genomes|Genetics** 2022; jkac217. (Cover).
- Chen SA, Lin HC, Schroeder FC, **Hsueh YP*** Prey sensing and response in a nematode-trapping fungus is governed by the MAPK pheromone response pathway. **Genetics** 2021; 217(2):iyaa008. (Issue Highlight).



- Huang TY, Lee YY, Vidal-Diez de Ulzurrun G, **Hsueh YP*** Forward genetic screens identified mutants with defects in trap morphogenesis in the nematode-trapping fungus *Arthrobotrys oligospora*. **G3 Genes|Genomes|Genetics** 2021; 11(2):jkaa022.
- Vidal-Diez de Ulzurrun G, Lee YY, Stajich JE, Schwarz EM*, **Hsueh YP***. Genomic analyses of two Italian oyster mushroom *Pleurotus pulmonarius* strains. **G3 Genes|Genomes|Genetics** 2021; 11(2):jkaa007.
- Lee YY, Vidal-Diez de Ulzurrun G, Schwarz EM., Stajich JE, **Hsueh YP***. Genome sequence of the oyster mushroom *Pleurotus ostreatus* strain PC9. **G3 Genes|Genomes|Genetics** 2021; 11(2):jkaa008.
- Lin HC, **Hsueh YP*** Laboratory maintenance and culturing of the nematode-trapping fungus *Arthrobotrys oligospora*. **Curr Protoc.** 2021; 1(2):e41.
- Tsai CE, Yang FJ, Lee CH, **YP Hsueh**, CJ Kuo, CS Chen*. The conserved regulator of autophagy and innate immunity hih-30/TFEB mediates tolerance of enterohemorrhagic *Escherichia coli* in *Caenorhabditis elegans*. **Genetics** 2021; 217(1):iyaa034.
- Kuo CY, Chen SA, **Hsueh YP***. The high osmolarity glycerol (HOG) pathway functions in osmosensing, trap morphogenesis and conidiation of the nematode-trapping fungus *Arthrobotrys oligospora*. **J. Fungi** 2020; 6:191.
- Yang CT, Vidal-Diez de Ulzurrun G, Goncalves AP, Lin HC, Chang CW, Huang TY, Chen SA, Lai CK, Tsai IJ, Schroeder FC, Stajich JE, **Hsueh YP***. Natural diversity in the predatory behavior facilitates the establishment of a robust model strain for nematode-trapping fungi. **PNAS** 2020; 117(12):6762-6770.
- Kuo TH#, Yang CT#, Chang HY, **Hsueh YP***, Hsu CC*. Nematode-trapping fungi produce diverse metabolites during predator-prey interaction. **Metabolites** 2020; 10(3):117. (# equal contributions)
- Lee CH, Chang HW, Yang CT, Wali N, Shie JJ, **Hsueh YP***. Sensory cilia as the Achilles heel of nematodes when attacked by carnivorous mushrooms. **PNAS** 2020; 117(11):6014-22.
 - Commentary: Renahan T. and Sommer RJ. Mechanism of murderous mushrooms paves path for parasitic helminth halt. **PNAS** 117(13):6974-6975.
- Vidal-Diez de Ulzurrun G, Huang TY, Chang CW, Lin HC, **Hsueh YP***. Fungal feature tracker (FFT): A tool for quantitatively characterizing the morphology and growth of filamentous fungi. **PLoS Comput Biol.** 2019; 15(10):e1007428. (Cover Story)
 - Highlighted by [AAAS EurekAlert](#).
- Kanzaki N, Liang WR, Chiu CI, Yang CT, **Hsueh YP**, Li HF*. Nematode-free agricultural system of a fungus-growing termite. **Sci Rep.** 2019; 9(1):8917.
- Vidal-Diez de Ulzurrun G, **Hsueh YP***. Predator-prey interactions of nematode-trapping fungi and nematodes: both sides of the coin. **Appl Microbiol Biotechnol.** 2018; 102(9):3939-49. (Invited Review).
- **Hsueh YP**, Gronquist MR, Schwarz EM, Nath RD, Lee CH, Gharib S, Schroeder FC, Sternberg PW*. Nematophagous fungus *Arthrobotrys oligospora* mimics olfactory cues of sex and food to lure its nematode prey. **eLife.** 2017; 6:e20023.
- **Hsueh YP**, Mahanti P, Schroeder FC, Sternberg PW*. Nematode-trapping fungi eavesdrop on nematode pheromones. **Curr Biol.** 2013; 23(1):83-6.
- Janbon G, Mullanpudi N, Hon CC, Billmyre RB, Brunel F, Bahn YS, Chen W, Chen Y, Chow EW, Coppee JY, Floyd-Averette A, Gaillardin C, Gerik KJ, Goldberg J, Gonzalez-Hilarion S, Gujja S, Hamlin JL, **Hsueh YP**, Ianiri G, Jones S, Kodira CD, Kozubowski L, Lam W, Marra M, Mesner LD, Mieczkowski PA, Moyrand F, Nielsen K, Proux C, Rossignol T, Schein JE, Sun S, Wollschlaeger C, Wood IA, Zeng Q, Neuveglise C, Newlon CS, Perfect JR, Lodge JK, Idnurm A, Stajich JE, Kronstad JW, Sanyal K, Heitman J, Fraser JA, Cuomo CA, Dietrich FS*. Analysis of the genome and transcriptome of *Cryptococcus neoformans* var. *grubii* reveals complex RNA expression and microevolution leading to virulence attenuation. **PLoS Genet.** 2014; 10(4):e1004261.



- Voelz K, Ma H, Phadke S, Byrnes EJ, Zhu P, Mueller O, Farrer RA, Henk DA, Lewit Y, **Hsueh YP**, Fisher MC, Idnurm A, Heitman J, May RC*. Transmission of hypervirulence traits via sexual reproduction within and between lineages of the human fungal pathogen *Cryptococcus gattii*. **PLoS Genet.** 2013; 9(9):e1003771.
- Findley K, Sun S, Fraser JA, **Hsueh YP**, Averette AF, Li W, Dietrich FS, Heitman J*. Discovery of a modified tetrapolar sexual cycle in *Cryptococcus amyloletus* and the evolution of MAT in the *Cryptococcus* species complex. **PLoS Genet.** 2012; 8(2):e1002528.
- Sun S, **Hsueh YP**, Heitman J*. Gene conversion occurs within the mating-type locus of *Cryptococcus neoformans* during sexual reproduction. **PLoS Genet.** 2012; 8(7):e1002810
- Wang X#, **Hsueh YP**#, Li W, Floyd A, Skalsky R, Heitman J*. Sex-induced silencing defends the genome of *Cryptococcus neoformans* via RNAi. **Genes Dev.** 2010; 24(22):2566-82. (# equal contributions)
- Xue C*, Wang Y, **Hsueh YP**. Assessment of constitutive activity of a G protein-coupled receptor, CPR2, in *Cryptococcus neoformans* by heterologous and homologous methods. **Methods Enzymol.** 2010; 484:397-412.
- **Hsueh YP**, Xue C, Heitman J*. A constitutively active GPCR governs morphogenic transitions in *Cryptococcus neoformans*. **EMBO J.** 2009; 28(9):1220-33.
- Velagapudi R, **Hsueh YP**, Geunes-Boyer S, Wright JR, Heitman J*. Spores as infectious propagules of *Cryptococcus neoformans*. **Infection and Immunity.** 2009; 77(10):4345-55.
- Jain N, Li L, **Hsueh YP**, Guerrero A, Heitman J, Goldman DL, Fries BC*. Loss of allergen 1 confers a hypervirulent phenotype that resembles mucoid switch variants of *Cryptococcus neoformans*. **Infection and Immunity.** 2009; 77(1):128-40.
- **Hsueh YP**, Fraser JA, Heitman J*. Transitions in sexuality: recapitulation of an ancestral tri- and tetrapolar mating system in *Cryptococcus neoformans*. **Eukaryot Cell.** 2008; 7(10):1847-55.
- **Hsueh YP**, Heitman J*. Orchestration of sexual reproduction and virulence by the fungal mating-type locus. **Curr Opin Microbiol.** 2008; 11(6):517-24.
- Xue C, **Hsueh YP**, Chen L, Heitman J*. The RGS protein Crg2 regulates both pheromone and cAMP signalling in *Cryptococcus neoformans*. **Mol Microbiol.** 2008; 70(2):379-95.
- Xue C, **Hsueh YP**, Heitman J*. Magnificent seven: roles of G protein-coupled receptors in extracellular sensing in fungi. **FEMS Microbiol Rev.** 2008; 32(6):1010-32.
- **Hsueh YP**, Xue C, Heitman J*. G protein signaling governing cell fate decisions involves opposing G α subunits in *Cryptococcus neoformans*. **Mol Biol Cell.** 2007; 18(9):3237-49.
- **Hsueh YP**, Idnurm A, Heitman J*. Recombination hotspots flank the *Cryptococcus* mating-type locus: implications for the evolution of a fungal sex chromosome. **PLoS Genet.** 2006; 2(11):e184.
- **Hsueh YP**, Shen WC*. A homolog of Ste6, the α -factor transporter in *Saccharomyces cerevisiae*, is required for mating but not for monokaryotic fruiting in *Cryptococcus neoformans*. **Eukaryot Cell.** 2005; 4(1):147-55.



Book Chapters

1. Vidal-Diez de Ulzurrun G, Juan SC, Lin TH and **Hsueh YP** (2024) Nematode-Trapping Fungi and *Caenorhabditis elegans* as a Model System for Predator–Prey Interactions. Chapter in *The Mycota* Vol. 9 Fungal Associations. Editors: YP Hsueh, M. Blackwell
2. **Hsueh YP**, Leighton DHW, and Sternberg, PW (2013). Nematode Communication, chapter in "Biocommunication of Animals", editor Witzany, G., Springer Netherlands.
3. **Hsueh YP**, Lin X, Kwon-Chung JK, and Heitman J (2010) Sexual reproduction of *Cryptococcus*, chapter in "*Cryptococcus*: from human pathogen to model yeast", editors: J. Heitman, T. Kozel, J. Kwon-Chung, J. Perfect, and A. Casadevall, ASM Press.
4. **Hsueh YP**, Metin B, Fraser JA, Findley KM, Rodriguez-Carres M, and Heitman J (2010) The mating-type locus of *Cryptococcus*: evolution of gene clusters, chapter in "*Cryptococcus*: from human pathogen to model yeast", editors: J. Heitman, T. Kozel, J. Kwon-Chung, J. Perfect, and A. Casadevall, ASM Press.
5. Fraser JA, **Hsueh YP**, Findley KM, and Heitman, J (2007) Evolution of the mating-type locus: the Basidiomycetes, chapter in "Sex in fungi: molecular determination and evolutionary implications", editors: Heitman, Kronstad, Taylor, and Casselton, ASM Press.

Book Editor

The Mycota Vol. 9 Fungal Associations; co-editor Meredith Blackwell (2024)

Honors

2025	Outstanding Research Award, NSTC, Taiwan
2022	Academia Sinica Early Career Investigator Research Achievement Award
2022	Academia Sinica Investigator Award
2022	Taiwan Outstanding Women in Science Award (Young Scientist Category), Wu Chien-Shiung Education Foundation and L'Oréal Taiwan
2021	Biomedical Young Scientist Award, Tie-Te Lee Biomedical Foundation
2020	EMBO Young Investigator
2019	EMBO Global Investigator
2018	Young Scholars' Creativity Award, Taiwan Foundation for Advancement of Outstanding Scholarship
2017	Academia Sinica Career Development Award
2014	NIH/ NIGMS Pathway to Independence (PI) K99 Award
2008	Genetics Society of America, DeLill Nasser Award
2007	Fungal Genetics Meeting Travel Award, Genetics Society of America
2003	Fungal Genetics Meeting Travel Award, Genetics Society of America



Funding – current and past

- 2024 - Max Planck Society
2022-2026 Academia Sinica Investigator Award
I.D.# AS-IA-111-L02
Title: Molecular mechanism of prey-sensing, trap morphogenesis and evolution in nematode-trapping fungi.
*Terminated on Nov. 30 2024 due to new appointment at MPI for Biology
- 2021-2024 Ministry of Science and Technology
I.D.# 110-2311-B-001-047-MY3
Title: Molecular genetics and genomics analyses of *Pleurotus ostreatus* mutants that lost toxicity to *C. elegans*.
- 2020 Ministry of Science and Technology
I.D.# 109-2311-B-001-023- MY3
Title: Molecular interactions between nematode-trapping fungi and *C. elegans*.
- 2017-2021 Academia Sinica Career Development Award
I.D.# CDA-104-L03
Title: Molecular mechanism of mushroom-triggered paralysis and killing in *C. elegans*.
- 2017-2020 Ministry of Science and Technology
I.D.# 106-2311-B-001-039-MY3
Title: Molecular mechanism of nematode-recognition in the nematode-trapping fungus *Arthrobotrys oligospora*.
- 2016 Ministry of Science and Technology
I.D.# 105-2311-B-001-044-MY2
Title: Molecular mechanism of nematode-triggered trap morphogenesis in nematode-trapping fungi.

Community Service

Scientific meeting co-organizer

- *C. elegans* Evolution Meeting, Vienna, Austria 2024
- The Joint Yeast, Fungi, and Medical Mycology Conference in Taiwan, Taipei, Taiwan 2023

Scientific meeting session co-chair

- International *C. elegans* Conference, Genetics Society of America 2017
- International *C. elegans* Conference, Genetics Society of America 2019
- Fungal Genetics Conferences, Genetics Society of America 2019

Poster Judge

- International *C. elegans* Conference, Genetics Society of America 2019
- Fungal Genetics Conferences, Genetics Society of America 2019

Committee member

- Genetics Society of America, DeLill Nasser Award selection committee, 2019-2024

Reviewer

- Nature Communications, PNAS, Current Biology, Genetics, G3, PLoS Biology, PLoS Genetics, PLoS Pathogen, Scientific Reports, Frontiers journal series, Fungal Genetics and Biology, Journal of Fungi.

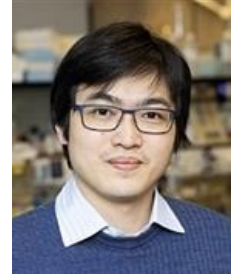
20. Dr. Jung-Chin Chang

Jung-Chin Chang, MD PhD

j.chang1@uu.nl

+31-6-43969579

Assistant professor | Utrecht University | Veterinary Medicine | Department
Biomolecular Health Sciences | Division Cell Biology, Metabolism & Cancer |
Yalelaan 2, 3584 CM Utrecht



1. Education

University of Amsterdam Ph.D. program (Biochemistry and Experimental Hepatology)	<i>Amsterdam, the Netherlands</i> 2012.05.01~2018.08.31
National Taiwan University Hospital Internal medicine residency program	<i>Taipei, Taiwan</i> 2010-2012
National Taiwan University M.D. (2010) School of Medicine	<i>Taipei, Taiwan</i> 2003-2010

2. Research

Utrecht University, Faculty Veterinary Medicine Utrecht Young Academy Member Assistant professor (tenured) Postdoctoral fellow	<i>Utrecht, the Netherlands</i> 2025.03.25 ~ present 2024.11.01~ present 2021.09.01~2024.10.31
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NWO Talent programme, Veni grant

- MASH-in-a-dish: *in vitro* model for steatosis, inflammation and fibrosis of liver disease.
- LC-MS-based metabolomics and 13-C fluxomics for metabolite crosstalk.

Amsterdam University Medical Center Project leader (ZonMw Off-Road grant) • Lesson from mice: why does cholestatic mouse not itch?	<i>Amsterdam, the Netherlands</i> 2022.01.01~2023.06.30
Postdoctoral fellow AGEM Talent Development Grant • Metabolic regulation of macrophage polarization by soluble adenylyl cyclase Dutch Cancer Society Unique high-risk project #11652 • Can we target soluble adenylyl cyclase, the novel metabolic sensor, to treat liver cancers?	<i>2020.09.01~2021.08.31</i>

3. Bio-sketch

Trained as a medical doctor, but driven by my inquisitive mindset, I become an enthusiastic researcher that takes on challenging questions. I am experienced in mitochondrial bioenergetics, cellular metabolism, apoptosis signaling, and experimental hepatology. Currently, I focus on developing multicellular in vitro systems to model metabolic and cholestatic liver diseases in adults and children. Using these models, I investigate cell-cell interactions in liver during diseases progression and identify therapeutic targets. Next to my research activity, I enjoy working with students to bring out their best potentials and bringing science to kids.

20. Prof. Shu-Chen Li



Prof. Shu-Chen Li is a full professor for Lifespan Developmental Neuroscience (<https://tu-dresden.de/mn/psychologie/ipep/epsy>) in the Faculty of Psychology at TUD Dresden University of Technology since 2012. She is one of the co-speakers of the DFG Cluster of Excellence Centre for Tactile Internet with Human-in-the-Loop CeTI (<https://ceti.one>) since 2019. As of May 2024 she also serves as the president of Sächsisch-Taiwanische Gesellschaft e.V. (STAGE) 德國薩克森邦-台灣交流協會 (<https://stage-ev.de>). She studied primary school education at the Taichung Teacher's College from 1982 to 1987, before she went to the U.S.A. to study psychology. She obtained the Ph.D. degree in Cognitive and Computational Psychology from the University of Oklahoma, USA (1994) and completed her postdoctoral training at the McGill University in Montréal, Canada (1995), prior to her 17-year research career at the Max Planck Institute (MPI) for Human Development in Berlin, Germany. After being a senior research scientist and the principal investigator of the Neuromodulation of Lifespan Cognition Project at the MPI.

Her research utilizes an integrated array of theoretical approaches and empirical paradigms, ranging from neurocomputational studies for theory development over genetically informed behavioural, EEG, and brain imaging studies to investigate developmental and individual differences in brain-behaviour relations across the lifespan from childhood to old age. A specific focus is the interactions between neuromodulatory and contextual influences (e.g., stress, reward, and technological augmentations) on cognitive, perceptual and motivational development across the lifespan.

Her publications can be found at <https://scholar.google.com/citations?user=pDTvwr0AAAAJ&hl=en>

21. Prof. Dr. Stefan Wagner



Since October 1st, 2024, Stefan has been a Professor at the University of Vienna, where he holds the Chair for Technology and Innovation Management. Before this appointment, he was a Professor of Strategy and Innovation at [ESMT Berlin](#), where he had held various positions since 2011. He completed his Habilitation (2010) and his Doctorate in Management (2005) at [Ludwig-Maximilians University, LMU Munich](#). Also, he has been a Senior Fellow at the [Berlin Centre for Consumer Policies \(BCCP\)](#) and has served on the boards of the [European Policy for Intellectual Property Association EPIP](#) and the [Doctoral Program of the Berlin School of Economics](#). He is also a member of the editorial review boards of the [Strategic Management Journal](#) and [Strategy Science](#).

His research interests cover the intersection of firm strategy, technological innovation, industrial organization, and law. Engaging with students and the public on important innovation policy issues is a key aspect of his work. Beyond the classroom, he has worked with numerous clients on questions of innovation as well as data analytics.

Results of Stefan's research have been published in leading journals, including the Academy of Management Journal, Harvard Business Review, Management Science, Strategic Management Journal, Review of Economics and Statistics, and Research Policy.

This webpage will be expanded gradually and provide more detailed information for students, researchers, and practitioners.

[Stefan's CV](#)

22. Prof. Dr. Edwin Hwu

Department of Health Technology, Danish Technology University, Denmark.

Curriculum vitae – Edwin En-Te Hwu

Webpage: <https://www.linkedin.com/in/edwinhacks4science/>

Nationality: Taiwan



[ORCID](#)

Education

2006 PhD, Dep. Mechanical Engineering, National Taiwan University, TW.

2001 MSc, Dep. Mechanical Engineering, National Sun Yat-Sen University, TW.

1999 BSc, Dep. Mechanical Engineering, National Sun Yat-Sen University, TW.

Current positions

2021-now Tenure Assoc. Prof. at Dep. Health Technology, Danish Technical Univ., DK.

2018-21 Assoc. Prof. at Dep. Nanotech, Danish Technical Univ., DK.

2015-17 Adj. Assoc. Prof. at Dep. Power Mechanical Eng., National Tsing Hua Univ., TW.

2014-17 Assoc. Res. Scientist at NanoScience Lab., Inst. of Phys. Academia Sinica, TW.

Publications/communication

1,047/735 citations, h-index=18/15, [Google scholar](#) [Scopus](#) 19. Jun. 2023

74 Peer-reviewed papers (10 first, 19 corresponding authorships),

69 reviewed conference proceedings, 2 E-books.

International experience and collaborations

2023 Icahn School of Medicine at Mount Sinai (US): Atopic Dermatitis assessment.

2022 National Taiwan University Hospital (TW): Atopic Dermatitis assessment.

2021 Oxford University (UK): Nanoscale characterization.

2020 Amsterdam University (NL): Atopic Dermatitis assessment.

2016 Kanazawa University (JP): High-speed atomic force microscopy.

2014 London Centre for Nanotechnology (UK): Nanoimaging.

2007-09 Physikalisch Technische Bundesantalt (DE): Postdoc for quantitative scanning probe metrology.

Project management experience

Period	Team members	Project
2023-now	3	DTU Proof of Concept: Micropump
2022-now	4	DTU Discovery: CorNanoSens
2022-now	4	InnoExplorer/Spinouts-Denmark: Micro nanoscale 3D printing
2020-23	4	LEO: nanotexture skin assessment. (DK, TW, NL)
2019-21	4	Villum Experiment 3D printing (DK, TW)
2015-16	6	LEGO2NANO nanotechnology education (DK, UK, TW, US, CN)
2014-16	5	High-speed bioimaging (TW, JP)
2013-15	8	ERC Blu-ray Biosensing (DK, TW)

Supervision (2010-2023)

	Main supervisor	Co-supervisor
Postdocs	7	10
PhD students	6	15
MSc students	18	31

Innovation

Co-founder of companies: BluSense Diagnostics, ARDIC Instruments, Nt-Unit, Epro Nanotech, CSS Nano.

Consultant of companies: OME Technologies, Strømlinet Nano, Force Instruments.

Conference Organizers

- European-Taiwanese Association for Science and Technology (ETAST) e.V.

歐洲台灣科技人協會

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Prof. Dr. Jian-Jia Chen (TU Dortmund University, Germany)

Local Chair

Prof. Dr. Jeronimo Castrillon (TU Dresden, Germany)

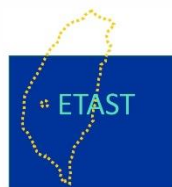
Multimedia/Web Chair

Dr. Kuan-Hsun Chen (University of Twente, the Netherlands)

Dr. Hsin-Fang Chang (Saarland University, Germany)

Finance Chair

Prof. Dr. Tsu-Wei Chen (Humboldt University, Berlin, Germany)



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中華民國僑務委員會

Overseas Community Affairs Council, R.O.C. (TAIWAN)



Information and details about the organizers can be found at

<https://eu-tw-sci-tech.org/conference-2025/>

Upcoming events...



Taiwan-Europe Startup Networking Luncheon

October 3, 2025. Berlin

<https://survey.stpi.niar.org.tw/s/AMGRO>

TAIWAN-EUROPE Startup Networking Luncheon

From Taiwan to Europe: Innovation in Motion

We are biomedical startup teams from Taiwan nurtured under the SPARK Taiwan program supported by the National Science and Technology Council (NSTC). We warmly invite the Taiwanese community in Germany and across Europe to join our Networking Luncheon — a casual gathering to connect, share, and explore collaborations.

Friday, October 3, 2025
11:30 AM – 2:30 PM



[Register Here](#)


Venue : Details to Follow (Berlin, Germany)

Hsuan-Fang Hung | Assistant Researcher(PM), SPARK Taiwan Office
National Institute of Applied Research(Taiwan)
sparktw@niar.org.tw WA:+886975089047

Ying-Wei Lin | Business Director, ITRI Europe Office
yingwei.lin@itri.org.tw +49-172-1705407

Hsin-Fang Chang | Vice Chair, European-Taiwanese Association for
Science and Technology e. V.
Hsin-Fang.Chang@uks.eu

 NSTC 國家科學及技術委員會
National Science and Technology Council

 STPI 科技政策研究與資訊中心
Science & Technology Policy Research and Information Center

 SPARK

 ITRI
Industrial Technology Research Institute





Mentor Program for Academia 2025

8-9 November 2025 / Zurich / Switzerland

ETCST 2025

Tentative Agenda

Nov. 8	Activities
11:00	Introduction
12:00-13:30	Lunch
13:30-15:00	Workshop 1: Preparing for an application <ul style="list-style-type: none"> • <i>Review job description and requirement</i> • <i>Discuss strategies for tailoring your application materials</i> • <i>Group activities: Peers and mentor review of your application and cover letter based on the job announcement that the participants select (grouped by topics)</i>
15:00-15:30	Coffee break
15:30-17:00	Workshop 2: Preparing for an interview <ul style="list-style-type: none"> • <i>How to prepare for the research (and teaching) presentations and the best practices for answering common interview questions</i> • <i>Mock interview practice with feedback</i> • <i>Group activities: Strategies for preparation (grouped by career stage)</i>

Nov. 9	Activities
09:00-10:30	Workshop 3: Difficulties of being a foreigner <ul style="list-style-type: none"> • <i>Culture of the research group and the department</i> • <i>Building relationships with colleagues</i> • <i>Communication using a foreign language</i>
10:30-11:00	Coffee break
11:00-12:30	Peers and personal mentoring <ul style="list-style-type: none"> • <i>Conflicts handling with mismatched supervision style</i> • <i>Discrimination on professions</i> • <i>Strategies for networking</i>

12:30-13:00	Closing session
13:00	Lunch and farewell

Your Mentors

Tsu-Wei Chen

W2 Professor, Humboldt University of Berlin, Germany

Hsin-Fang Chang

Group Leader, University of Saarland, Germany

Chih-Jen Shih

Associate Professor, ETH Zürich, Switzerland

Kuan-Hsun Chen

Assistant Professor, University of Twente, the Netherlands

Jian-Jia Chen

Professor, TU Dortmund, Germany

Zang-Hong Lin

Postdoc, ETH Zürich, Switzerland