Hung-yi Lee (李宏毅)

Link to Google Scholar profile: https://scholar.google.com/citations?user=DxLO11IAAAAJ

Education & Work Experiences

- **Professor**, Department of Electrical Engineering of National Taiwan University (NTU), with a joint appointment at the Department of Computer Science & Information Engineering of the university (2023 -)
- **Associate professor**, Department of Electrical Engineering of NTU, with a joint appointment at the Department of Computer Science & Information Engineering of the university (2019 –2023)
- **Assistant professor**, Department of Electrical Engineering of NTU, with a joint appointment at the Department of Computer Science & Information Engineering of the university (2014 - 2019)
- **Visiting scientist**, Spoken Language Systems (SLS) Group, Computer Science and Artificial Intelligence Lab (CSAIL), Massachusetts Institute of Technology (MIT) (2013 - 2014)
- **Postdoctoral fellow**, Research Center for Information Technology Innovation, Academia Sinica (2012 –2013)
- **Ph.D.**, Graduate Institute of Communication Engineering, NTU (2010 –012)

Selected Honor

- International Young Outstanding Scholar Fellowship, National Science and Technology Council (2023)
  - At most 15 scholars from all disciplines in Taiwan be honored by this research grant each year.
- The 59th Ten Outstanding Young Person Award of Taiwan (2021)
- AWS ML Research Award (2020), Project: Speech Processing Decathlon
- Salesforce Research Deep Learning Grant (2019), Project: Lifelong Language Learning
- Ta-You Wu Memorial Award, Ministry of Science and Technology of Taiwan (2019)
  - The award is generally recognized as the most distinguished national honor in Taiwan for young scholars in all disciplines for excellence in scientific and technological research.
- Young Scholar Innovation Award, Foundation for the Advancement of Outstanding Scholarship (2019)
- Young Scholar Fellowship, Ministry of Science and Technology of Taiwan (2018)
- Outstanding Young Engineer Award, The Chinese Institute of Electrical Engineering (2018)
- Distinguished Teaching Award (top 1%), National Taiwan University (2018)
- Distinguished Young Scholar Award, Computer Society of the Republic of China (2017)
- The co-authoring papers receiving the following honor.
  - **Best Paper Award, SLT 2022 (2 out of 350), Best Student Paper Award, INTERSPEECH 2018 (3 out of 700)**
  - One of the finalists for the Best Student Paper Award in SLT 2022, INTERSPEECH 2018, INTERSPEECH 2016, INTERSPEECH 2013, INTERSPEECH 2012, SLT 2011.

Selected Professional Activities & Research Experiences

- **Self-supervised Learning (SSL)**
  - Co-organizing **INTERSPEECH 2020 special session**, *New Trends in self-supervised speech processing*
  - Co-organizing **NeurIPS 2020 workshop**, *Self-Supervised Learning for Speech and Audio Processing* (the acceptance rate of workshop proposal is 35%)

- Co-organizing **AAAI 2022 workshop**, *Self-Supervised Learning for Speech and Audio Processing*
- Co-organizing **ASRU 2023 workshop**, *Speech Foundation Models and their Performance Benchmarks*
- Co-author of the overview paper, *Self-Supervised Speech Representation Learning: A Review*, published at IEEE Transactions on Journal of Selected Topics in Signal Processing
- **3-hour tutorial**, Self-Supervised Speech Representation Learning for Speech Processing, at ICASSP 2022, NAACL 2022, INTERSPEECH 2022.
- Leading an international team to develop a speech SSL assessment framework: Speech processing Universal PERformance Benchmark (SUPERB). Researchers from more than 40 different research institutions have used SUPERB as the evaluation standard for speech SSL models, including well-known international companies such as Meta and Microsoft. The number of citations of the first paper of the SUPERB benchmark more than 600 times.
- **Lead Guest Editor**, IEEE Transactions on Journal of Selected Topics in Signal Processing (Special issue: *Self-Supervised Learning for Speech and Audio Processing*)

- **Generative Adversarial Network**
  - **3-hour tutorial**, *Generative Adversarial Network and its Applications to Speech and Natural Language Processing*, at ICASSP 2018, APSIPA 2018, ISCSLP 2018, INTERSPEECH 2019, SIPS 2019.
    - **This tutorial has the most participants among the 14 tutorials in ICASSP 2018.**
    - **This tutorial has the most participants among the 8 tutorials in INTERSPEECH 2019.**
  - **Guest Editor**, IEEE Transactions on Emerging Topics in Computational Intelligence (Special issue: *Adversarial Learning in Computational Intelligence*)
- **Meta Learning**
  - **3-hour tutorial**, *Meta Learning and Its Applications to Human Language Processing*, at INTERSPEECH 2020, ICASSP 2021, ACL 2021.
  - Co-organizing **ACL 2021 workshop**, *Meta Learning and Its Applications to Natural Language Processing*
  - Co-author of the overview paper, *Meta Learning for Natural Language Processing: A Survey*, published at NAACL 2022
- **YouTube Channel** teaching deep learning in Mandarin
  - The total number of views of the channel about **16 million**, and the number of subscribers reached **200,000**.
- **Service for Academic Community**
  - Associate Editor, IEEE/ACM Transactions on Audio, Speech, and Language Processing (TASLP) (2023 -), Action Editor, Neural Networks, Elsevier SPS (2023 -), Associate Editor, IEEE Open Journal of Signal Processing (2022 –)
  - IEEE Signal Processing Society (SPS) Education Center Editorial Board (2022 -)
  - IEEE Speech and Language Processing Technical Committee (SLTC) (2020 -)
  - **ISCSLP 2022 Technical Program Chair, INLG 2023 Technical Program Chair**, EMNLP 2020 Area Chair、AAAI 2020 Meta Reviewer、EMNLP 2021 Senior Area、ACL 2021 Area Chair、NAACL 2021 Area Chair、SLT 2021 Area Chair、ICASSP 2021 Meta Reviewer、AAAI 2021 Meta Reviewer、AAAI 2022 Area Chair、AACL-IJCNLP 2022 Area Chair、SLT 2022 Area Chair、ICASSP 2022 Meta Reviewer、AAAI 2023 Area Chair、ICASSP 2023 Meta Reviewer、INTERSPEECH 2023 Area Chair、ICLR 2023 Area Chair (**Notable Area Chair**), AAAI 2024 Area Chair, ICLR 2024 Area Chair