

Curriculum Vitae

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Candy Olivia Mawalim

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EDUCATION BACKGROUND

Senior High School Methodist 5 Medan *Jul. 2010 – May 2013*
Natural Science Degree
Bandung Institute of Technology (ITB) – Indonesia *Aug. 2013 – Jul. 2017*
Bachelor of Science (B.Sc.), School of Electrical Engineering and Informatics
Japan Advanced Institute of Science and Technology (JAIST) *Oct. 2017 – Sept. 2019*
School of Information Science (M.S.)
Thesis : Study on audio information hiding based on cochlear delay characteristics
Advisor : Prof. Masashi Unoki
Japan Advanced Institute of Science and Technology (JAIST) *Oct. 2019 – Mar. 2022*
School of Information Science (Doctoral degree)
Topic : Content and privacy protection methods for secure speech communication and its applications
Advisor : Prof. Masashi Unoki

RESEARCH INTERESTS

Speech security, Voice privacy, Social signal processing, Machine learning, Low resource languages

WORK EXPERIENCE

Senior Lecturer, JAIST *Oct. 2025 – present*
Social Signal Interaction Group & Research Center for Biological Function and Sensory Information
Assistant Professor, JAIST *Apr. 2022 – Sep. 2025*
Social Signal Interaction Group & Research Center for Biological Function and Sensory Information
Data Scientist (Part-time), Kazee Indonesia *Apr. 2017 – Jul. 2017*
PT. Digital Utama Adikarya, Bandung, Indonesia | Research on social media analytics
Software Engineering Intern, PT. Akhdani Reka Solusi *May. 2016 – Jun. 2016*
Full-stack web development project

RESEARCH EXPERIENCE

Visiting Researcher, the University of Sheffield, UK *Sep. 2023 – Oct. 2023*
Speech and Hearing Research Group (SpandH), advised by Prof. Jon Barker
Research Fellow DC1, Japan Society for the Promotion of Science (JSPS) *Apr. 2020 – Mar. 2022*
Project: Audio information hiding based on human auditory characteristics related to phase modulation
Laboratory Assistant at Unoki Lab., JAIST *Oct. 2017 – Mar. 2020*
Project: Speech information hiding, speaker anonymization
Research Internship at Acoustic Information Science Lab., JAIST *Jan. 2017 – Mar. 2017*
Project: Audio watermarking based on phase modulation using gammatone filterbank
Research Internship at Data Mining Lab., POSTECH (South Korea) *Jul. 2016*
Project: Recommendation system
PT Inti Automatic Speech Recognition (ASR) Project Member, ITB *Dec. 2015 – Jul. 2016*

RESEARCH GRANTS

JSPS Kakenhi for Young Scientist (Wakate) (PI) Project: Deepfake Detection for a Trustworthy Speech Communication	<i>Apr. 2025 – Mar. 2028</i>
JAIST Research Grant (Fundamental Research) FY2022, FY2023, FY2024 JAIST Science Hub FY2024 (PI) Project: JAIST-ASEAN Deepfake Voice Detection Hub	<i>Jul. 2022 – Mar. 2025</i> <i>Jul. 2024 – Mar. 2025</i>
JSPS Kakenhi Grant-in-Aid for Challenging Research FY2023 (Co-I) Project: Voice anonymization technology for voice privacy protection--- [PI: Masashi Unoki]	<i>Oct. 2023 – Mar. 2025</i>
JST Sakura Science Exchange Program FY2023 (Co-I) Project: Toward Multimodal Human-AI Communication in Society 5.0 --- [PI: Sakriani Sakti]	<i>Oct. 2023 – Mar. 2024</i>
ICT Virtual Organization of ASEAN Institutes and NICT (ASEAN-IVO) (Co-I) Project: Spoof Detection for Automatic Speaker Verification --- [PI: Kasorn Galajit (Thailand)]	<i>Apr. 2023 – Mar. 2025</i>
JSPS Kakenhi Research Activity Start-up FY2022 (PI) Project: Speech security on human-computer interaction	<i>Oct. 2022 – Mar. 2024</i>
Special Grants-in-Aid for Scientific Research JSPS DC1 (PI) Project: Audio information hiding based on human auditory characteristics related to phase modulation	<i>Apr. 2020 – Mar. 2022</i>

TEACHING EXPERIENCE

Lecturer, I225E Statistical Signal Processing, JAIST Guest Lecturer, IF4071 Speech Processing Course, ITB Title: Voice Biometrics dan Secure Speech Communication	<i>Apr. 2025 – Jun. 2025</i> <i>14 Nov. 2023</i>
Invited Speaker, APSIPA Workshop on Signal and Information Processing Title: Speech signal processing for privacy and security protection	<i>1 Aug. 2023</i>
Keynote Speaker, AI Talks ITB #10 Title: AI for Speech Processing: “Threats and Opportunities of Voice-Interactive Applications”	<i>8 May 2023</i>
Teaching Assistant, JAIST Course: Human perceptual systems and its models	<i>Dec. 2020 – Feb. 2021</i>
Invited Speaker, JSPS Research Fellowship FY2021 Briefing Session, JAIST	<i>20 Apr. 2020</i>
Graphics and Artificial Intelligence Laboratory Assistant, ITB Teaching assistant for Computer Graphics, Artificial Intelligence, Geometry Algebra, Logic of Informatics courses	<i>Aug. 2014 – Jul. 2017</i>

ACTIVITIES AND MEMBERSHIPS

ISCA SIG Security and Privacy in Speech Communication (SPSC) <ul style="list-style-type: none">Education Team (Webinar coordinator)Technical Committee for the 3rd SPSC Symposium (Interspeech 2023 Satellite Event)Technical Committee and Session Chair for the 4th SPSC Symposium (Interspeech 2024 Satellite Event)Technical Committee for the 5th SPSC Symposium (Interspeech 2025 Satellite Event)	<i>Oct. 2022 – present</i>
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Reviewer of International Journals and Conferences

- (Since 2025) IEEE Transactions on Affective Computing
- (Since 2025) IJCNN - IEEE International Joint Conference on Neural Networks
- (Since 2024) LREC-COLING - The Joint International Conference on Computational Linguistics, Language Resources and Evaluation
- (Since 2023) IEEE/ACM Transactions on Audio, Speech and Language Processing
- (Since 2023) INTERSPEECH: Conference of the International Speech Communication Association
- (Since 2022) Applied Acoustics Journal, Elsevier
- (Since 2022) ICASSP: The International Conference on Acoustics, Speech, and Signal Processing
- (Since 2023) Frontiers in Applied Mathematics and Statistics

The Institute of Electrical and Electronics Engineers (IEEE)	<i>Apr. 2022 – present</i>
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IEEE Signal Processing Society (SPS)	<i>Apr. 2022 – present</i>
The Association for Computing Machinery (ACM)	<i>Jan. 2022 – present</i>
The Asia-Pacific Signal and Information Processing Association (APSIPA)	<i>Oct. 2020 – present</i>
The International Speech Communication Association (ISCA)	<i>Aug. 2020 – present</i>
JAIST Student Council	<i>Sep. 2018 – Mar. 2022</i>
<ul style="list-style-type: none"> Member (2017 – 2018), President (2018 – 2019), Vice president (2019 – 2022) 	
The Acoustical Society of Japan (ASJ)	<i>Mar. 2018 – present</i>
Informatics Student Association, ITB	<i>2014 – 2017</i>
<ul style="list-style-type: none"> Technical Division (2014 – 2015), Secretary (2015 – 2016), Technical Division (2016 – 2017) 	
Indonesia Olympiad Team in Informatics – ITB Branch	<i>2013 – 2017</i>
<p>The members of organization consist of Informatics Olympiad Alumni. We provide committee works for National Preparation for IOI (International Olympiad in Informatics).</p> <ul style="list-style-type: none"> Secretary – Treasury Division Staff, Informatics National Camp (2013 – 2015) Informatics Olympiad Alumni Camp Coordinator (2014) 	

AWARDS AND SCHOLARSHIPS

Best Theme Paper Award	<i>May. 2025</i>
NAACL 2025 - 2025 Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics	
Best Presentation Award	<i>Apr. 2024</i>
IEAI 2024 - 5th International Conference on Industrial Engineering and Artificial Intelligence	
Research Fellowship for Young Scientists DC1 (JSPS)	<i>Apr. 2020 – Mar. 2022</i>
JAIST Doctoral Research Fellowship (DRF), Special Type	<i>Oct. 2019 – Mar. 2020</i>
Student Outstanding Performance Award	<i>Sep. 2019</i>
Best Paper Award	<i>Jul. 2019</i>
11 th International Conference on Social Computing and Social Media	
Student Paper Award	<i>Mar. 2019</i>
2019 RISP International Workshop on Nonlinear Circuits, Communications and Signal Processing	
Mitani Scholarship (Master program)	<i>Apr. 2018 – Sep. 2019</i>
Monbukagakusho Honors Scholarship (Master program)	<i>Oct. 2017 – Mar. 2018</i>
ASEAN – Maybank Scholarship (Bachelor program)	<i>Aug. 2013 – Jul. 2017</i>

COMPUTER SKILLS

- **Programming languages:** C, C++, Python, MATLAB, Java
- **Operating System:** Windows, Linux
- **Frameworks:** Tensorflow, PyTorch, Scikit-learn, NumPy, SciPy, Pandas, NodeJS
- **Database System:** MySQL, PostgreSQL

LANGUAGE ABILITIES

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| • Bahasa Indonesia (native) | • English (fluent) | • Chinese (HSK 4 級考試) |
| • Medanese Hokkien (native) | • Japanese (JLPT N1) | • Korean (beginner) |