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Founding President, Japanese Association for Medical AI Literacy (JAMAIL)

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Education

- 2010.4 – 2016.3 MD, School of Medicine, University of Tsukuba, Japan
- 2021.4 – 2025.3 PhD (Medicine), Graduate School of Medicine, St. Marianna University School of Medicine, Japan

Professional Experience

- 2016.4 – 2018.3 Junior Resident, JCHO Tokyo Shinjuku Medical Center
- 2018.4 – 2018.12 Fellow, Internal Medicine / Nephrology, Toranomon Hospital
- 2019.1 – 2020.3 Fellow, Internal Medicine / Nephrology, JCHO Tokyo Shinjuku Medical Center
- 2020.4 – 2021.3 Staff Physician, Department of Nephrology, Japanese Red Cross Medical Center
- 2021.4 – 2025.3 Clinical Assistant, Division of Nephrology and Hypertension, St. Marianna University School of Medicine
- 2025.4 – present Assistant Professor, Division of Nephrology and Hypertension, St. Marianna University School of Medicine

Board Certifications & Qualifications

- Board-certified in Internal Medicine (Japanese Society of Internal Medicine), Nephrology (Japanese Society of Nephrology), and Dialysis (Japanese Society for Dialysis Therapy)
- Certification of the Japanese Society for Medical Artificial Intelligence
- JDLA Deep Learning for ENGINEER (E-certificate, 2024#1), G-test (2022#2), Generative AI Test (2023#2)
- SIGNATE Master

Leadership & Committees

- 2026.7 – present Founding President, Japanese Association for Medical AI Literacy (JAMAIL)
- 2026.7 – present Member, Japan-Young Nephrologist Committee (J-YNC), Japanese Society of Nephrology
- 2026.8 – present Member, EDC Promotion Working Group, Statistical Survey Committee, Japanese Society for Dialysis Therapy
- 2025.10 – present Councilor; Member, Public Relations & Editorial Committee, Japanese Society of Artificial Intelligence in Nephrology and Blood Purification (JAINBP)
- 2025.9 – 2026.11 Program Committee Member, the 6th Annual Meeting of JAINBP
- 2023.7 – 2025.3 Systematic Review Committee Member, healthcare implementation guideline project on chronic kidney disease

Honors & Awards

- 2026.5 Excellent Presentation Award, the 88th Kanagawa Society of Internal Medicine Meeting
- 2026.2 First Runner-up (2nd of 80 teams), the 7th Japan National Medical AI Contest
- 2025.10 The 18th Maeda Award, St. Marianna University School of Medicine
- 2025.3 Outstanding Doctoral Thesis Award, St. Marianna University School of Medicine
- 2023.1 Gold Medal, SIGNATE Medical Paper Classification Challenge
- 2022.11 Top Ranking (6th of 976), GCI 2022 Winter Competition 1, Matsuo Lab, the University of Tokyo

Research Grants (Principal Investigator)

- 2026.4 – 2029.3 JSPS KAKENHI, Grant-in-Aid for Early-Career Scientists: Deep learning-based dynamic prognostic prediction model for IgA nephropathy
- 2025.7 – 2027.3 JSPS KAKENHI, Grant-in-Aid for Research Activity Start-up: Machine learning-based, minimally invasive and generalizable diagnostic prediction models for kidney diseases
- 2023.4 – 2025.3 Tateisi Science and Technology Foundation, Research Grant (C)
- 2023.4 – 2024.3 Graduate Research Support, St. Marianna University School of Medicine
- 2023.3 – 2024.2 Nishikawa Medical Foundation, Research Grant

Publications (◆ first author, ■ last author, ◎ corresponding author)

1. ■◎ Performance of Reasoning and Comparator Large Language Models on Nephrology Multiple-choice Questions. *JMA Journal*. 2026 (Advance Publication). doi:10.31662/jmaj.2025-0603
2. ◆◎ Transforming hemodialysis care: a tripartite collaboration model among medical staff, AI agents, and robots. *Clinical and Experimental Nephrology*. 2026. doi:10.1007/s10157-026-02903-z
3. ◆◎ Performance of o1 pro and GPT-4 in self-assessment questions for nephrology board renewal. *Frontiers in Medicine*. 2025;12:1702668.
4. ◆◎ Verification of the usefulness of machine learning for kidney disease diagnosis. *Journal of JAINBP*. 2025;3:5-6. [in Japanese]
5. ◆◎ Performance of GPT-4o on nephrology multiple-choice questions. *Journal of JAINBP*. 2025;3:31-32. [in Japanese]
6. ◆◎ GPT-4's performance in supporting physician decision-making in nephrology multiple-choice questions. *Scientific Reports*. 2025;15:15439. doi:10.1038/s41598-025-99774-3
7. ◆◎ Machine learning-based diagnostic prediction of minimal change disease: model development study. *Scientific Reports*. 2024;14:23460. doi:10.1038/s41598-024-73898-4
8. ◆◎ Current status and prospects of artificial intelligence in nephrology. *Japanese Journal of Nephrology*. 2024;66(5):773-783. [in Japanese]
9. ◆◎ Performance of ChatGPT and Bard in self-assessment questions for nephrology board renewal. *Clinical and Experimental Nephrology*. 2024;28:465-469. doi:10.1007/s10157-023-02451-w
10. ◆◎ Machine learning-based diagnostic prediction of IgA nephropathy: model development and validation study. *Scientific Reports*. 2024;14:12426. doi:10.1038/s41598-024-63339-7
11. ◆ New biomarker of preeclampsia in kidney transplant recipients. *Kidney International Reports*. 2022. doi:10.1016/j.ekir.2022.09.034

12. ◆◎ Recurrence of renal cell carcinoma in a patient who underwent kidney transplantation after a 2-year, 5-month interval of partial nephrectomy. *Therapeutic Apheresis and Dialysis*. 2022. doi:10.1111/1744-9987.13896
13. ◆◎ Renovascular hypertension secondary to massive iliopsoas hematoma. *Kidney International*. 2022;101(6):1304. doi:10.1016/j.kint.2022.01.011
14. ◆◎ Emphysematous cystitis caused by dysuria due to sulpiride in a patient with chronic kidney disease. *SN Comprehensive Clinical Medicine*. 2022. doi:10.1007/s42399-022-01180-7
15. ◆◎ Granuloma formation after peritoneal dialysis catheter-related infection by *Mycobacterium chelonae*. *Kidney International*. 2021;100(6):1355. doi:10.1016/J.KINT.2021.03.040
16. ◆◎ A hemodialysis patient with recurrent hepatic encephalopathy prevented by rifaximin. *Journal of the Japanese Society for Dialysis Therapy*. 2021. doi:10.4009/jsdt.54.591 [in Japanese]
17. Clinical characteristics of 14 cases of acute focal bacterial nephritis. *Japanese Journal of Nephrology*. 2021. (co-author) [in Japanese]
18. ◆◎ Successful treatment of recurrent exit site and tunnel infections caused by atopic dermatitis with dupilumab. *Therapeutic Apheresis and Dialysis*. 2021. doi:10.1111/1744-9987.13690
19. ◆◎ Pregnancy-onset thrombotic thrombocytopenic purpura with nephrotic syndrome. *CEN Case Reports*. 2021. doi:10.1007/S13730-021-00654-2
20. Prolonged shedding of SARS-CoV-2 in COVID-19 infected hemodialysis patients. *Therapeutic Apheresis and Dialysis*. 2021. (co-author) doi:10.1111/1744-9987.13566

Preprints: ■◎ Robustness Gap of Large Language Models in Nephrology. medRxiv. 2026. doi:10.64898/2026.08.17.26360565 / ◆
 Deep Learning-Identified Clinical Trajectory Patterns and Associations with Kidney Outcomes in IgA Nephropathy. medRxiv. 2025. doi:10.1101/2025.09.04.25333884

Selected Invited Lectures

- 2026.7 Symposium, the 35th Annual Meeting of the Japanese Society for Surgery of Renal Failure
- 2026.6 Symposium, the 71st Annual Meeting of the Japanese Society for Dialysis Therapy
- 2026.4 Workshop, the 52nd Annual Meeting of the Japan Society for Blood Purification Technology
- 2025.9 Educational Lecture, the 55th Eastern Regional Meeting of the Japanese Society of Nephrology
- 2025.6 Symposium, the 68th Annual Meeting of the Japanese Society of Nephrology

63 conference presentations in total, including international presentations (ASN Kidney Week 2023, the 17th International Symposium on IgA Nephropathy, ISN WCN 2026) and numerous invited lectures. Full list on researchmap.

Book Chapters

- Kidney Disease Practice Manual for Residents, 4th ed. (2025) — AI in kidney disease practice [in Japanese]
- Kidney and Dialysis, Vol. 99(2): IgA Nephropathy (2025) — Machine learning-based diagnosis of IgA nephropathy [in Japanese]
- Latest Therapy for Kidney Disease and Dialysis 2023-2025 (2023) [in Japanese]
- Types and Usage of Infusion Preparations (2020) [in Japanese]

Media Coverage

- Jiji Medical (2024) — diagnostic prediction model for minimal change disease
- HCPLive (US, 2024): “Machine Learning Could Offer Noninvasive, Reliable Diagnostic Tool in IgA Nephropathy”

- HCPLive (US, 2023): “Machine Learning Could Improve IgA Nephropathy Diagnostics”
- Health & Medicine Week (NewsRx) and others — 8 items in total, domestic and international

Memberships

Japanese Society of Internal Medicine / Japanese Society of Nephrology / Japanese Society for Dialysis Therapy
/ Japanese Society of Artificial Intelligence in Nephrology and Blood Purification / Japanese Society for Medical
Artificial Intelligence