Mitsuhiro Odaka – Curriculum Vitae



Work Experience

Nov 2025-Present

Research Associate at National Institute for Environmental Studies (NIES), Social Systems Division, Global Sustainability Integrated Assessment Section

Overview

TBD

Apr 2024-Oct 2025

Consultant at a Major Global Consulting Firm (Big 4)

Overview

Immediately after completing my Ph.D., I joined a Big4 firm to build business acumen and worked as a consultant in Digital Transformation (Emerging Technology; Data & Al). I developed Al- and data-sciencebased solutions and applied research skills to real-world business challenges.

Responsibilities

DX: Business-strategy support

- Estimated drivers of structural deterioration in public infrastructure using NLP and computer vision to optimize risk management.
- Proposed intervention hypotheses for standing up a CFO function via statistical analysis of enterprise survey data.
- Performed topic classification and analytics of meeting minutes using LLMs.
- Planned and proposed Eco-DRR (ecosystem-based disaster risk reduction), including Al-driven simulations for siting green infrastructure.
- Conducted emerging-technology research (quantum computing):
 - Built longlists/shortlists.
 - o Ran statistical analyses of Technology Readiness Levels.
 - Created Sankey (parallel-category) diagram visualizations across elemental technologies × industries × business domains × expected impact.

SX: Sustainability-strategy support

- Performed governance, risk, and compliance (GRC) analysis to enhance corporate value.
 - o Conducted code reviews and regression testing.
 - Web-scraped JPX Corporate Governance Reports and Buffett Code stock price data; retrieved and integrated securities reports and other datasets from SQL Server.
 - o Designed approaches to estimate financial and non-financial metrics using NLP and generative AI.

Al agents for an advertising agency (IT strategy, architecture, and operations)

- Designed and built a digital-advertising AI agent on Azure and Django for customer analytics, audience selection, clustering & persona analysis, media-plan generation, and automated slide creation (intelligent automation).
- Designed and built a code-analysis Al agent (file/table/function dependency graph; graph-RAG chat).
- Developed technical proof-of-concept demos (multimodal RAG; MCP server).

Apr 2021-Mar 2024

JSPS Research Fellowship for Young Scientists DC1, Japan Society for the Promotion of Science

Theme Research on COVID-19 using artificial intelligence technologies

Affiliation National Institute of Informatics & LS2N, École Centrale de Nantes

Overview To further advance network research and address the urgent global challenge of COVID-19, I served for three years as a JSPS research fellow DC1 and as a collaborative researcher in the ROIS Strategic Research Project. I developed foundational technologies for causal network discovery using AI and conducted applied research on COVID-19.

Achievements by the end of the term

- Secured four competitive external grants (one JSPS Fellowship Grant, three ROIS project budgets)
- Produced 23 research outputs (2 peer-reviewed journal papers, 3 peer-reviewed conference papers, 18 conference presentations)
- Awarded Ph.D. in Informatics

Mar 2022-Jun 2022 Part-Time Teaching Assistant (Enseignant vacataire), École Centrale de Nantes

Assisted with programming labs for the "Mathématiques" course (Professor Françoise Foucher)

Jan 2020-Mar 2021

Intellectual Property Hunter (Writer & Editor) Intern, Chizaizukan Inc.

Achievements

Hunted 72 IP cases (ranked #1 out of ~30 IP hunters as of March 2021).

What is an IP Hunter? (Japanese only, published Jan 6, 2021)

The World of Serious Games (Japanese only, published May 25, 2020)

Seven Outstanding Bachelor Theses (Japanese only, published May 25, 2020)

Feb 2018–Mar 2021 Research Assistant (Part-Time), National Institute of Informatics

Apr 2020-Mar 2021: Research Support, Informatics Principles Division

 Feb 2018–Mar 2020: Research Support, Information Society Correlation Division (Seconded Nov 2018–Jun 2019 to Canon Institute for Global Studies, Macroeconomics Group)

Education

2026(expected) M.A. in Public Policy

Degree Awarded By

Jindal School of Government and Public Policy (Supervisor: Prof. Pradeep Guin)

Research Theme

Spatial Targeting of Climate-Responsive Social Protection in Southern Asia: Mapping Climate-Economy-Disease Vulnerability Hotspots and Clarifying Policy Mismatches (TBC)

2024 Ph.D. in Informatics

Degree Awarded By

Dual Degree Program Completion

The Graduate University for Advanced Studies (SOKENDAI) (Supervisor: Prof. Katsumi Inoue, NII) (2019-2024) Learning & Inference Lab

École Centrale de Nantes (LS2N, Supervisor: Prof. Morgan Magnin) (2021-2024) MéForBio Lab

Focus Integration of deep learning and symbolic reasoning

Research Theme Development of a framework for causal network discovery by integrating observational data and domain knowledge, and its application to global challenges (aligned with JSPS DC1 duties and ROIS Strategic Research Project roles)

Dissertation Title Data-Driven and Knowledge-Based Multiscale Modeling of Viral Dynamics

2021 M.Sc. in Informatics

Degree Awarded By The Graduate University for Advanced Studies (awarded upon completion of master's degree qualification examination)

Thesis Title Modeling Viral Dynamics in SARS-CoV-2 Infection Based on Differential Equations and Numerical Analysis

2020 B.Sc. in Science

Degree Awarded By National Institution for Academic Degrees and Quality Enhancement of Higher Education Completed required coursework and a written exam during medical studies to earn a second bachelor's degree.

Thesis Title Visualization and Network Analysis of Global Stock Ownership Big Data

2019 Bachelor of Medicine

Degree Awarded By Nagasaki University School of Medicine

Theme 1 Optimization of herd immunity strategies for malaria

Affiliation Institute of Tropical Medicine, Nagasaki University

Overview Developed ODE-based models to simulate infection and vaccination effects under various herd immunity scenarios in developing countries, analyzing the relationship between vaccination coverage and infection prevalence.

Theme 2 Global ownership research

Affiliation National Institute of Informatics

Overview Motivated by interest in network structures underlying disease spread, conducted network analysis on global corporate shareholding data to model the scale of corporate control diffusion and quantitatively analyze China's Belt and Road Initiative.

Competitive External Funding

2022-2024 Strategic Research Project, Research Organization of Information and Systems (Project No. 2022-SRP-09)

¥800,000 (FY2022), ¥1,100,000 (FY2023)

"Artificial Intelligence for Uncovering Network Dynamics of SARS-CoV-2 Multiscale Infection Systems"

2021-2024 JSPS KAKENHI Fellowship (Project Nos. 21J22938 [2021-2022], 22KJ1417 [2023])

¥2,500,000

"Model-driven Study of Host Cell Multiscale Dynamics in Viral Infection"

2021-2022 **ROIS COVID-19 Research Project**

¥1,000,000

'Multiscale Modeling of Network Dynamics in SARS-CoV-2 infectious systems"

ROIS COVID-19 Research Project 2020-2021

¥1,400,000

"Multiscale Quantitative Analysis of SARS-CoV-2 Infection Dynamics"

Awards

2020 IPSJ 81st Annual Conference Best Paper Award

Mitsuhiro Odaka & Takayuki Mizuno, "Data-driven Study on Chinalization by One Belt One Road Initiative: Network

Analysis of Global Stock Ownership Network"

2019 IPSJ 81st Annual Conference Student Encouragement Award

Same as above

Other Academic Service 1 (Research Collaboration)

2019–2024 Institute of Tropical Medicine, Nagasaki University International Health Division Collaborative Researcher

Other Academic Service 2 (Review Assistance)

Review Assistance: 31st International Joint Conference on Artificial Intelligence (IJCAI) 2022

2020 Review Assistance: The 11th International Conference on Computational Systems-Biology and Bioinformatics (CSBio)

Technical Competencies

Modeling & Simulation

Examples: Differential equation modeling, Sensitivity analysis, Stability analysis, Dynamical system calibration experiments, Building multi-agent systems using artisoc, mathematical optimization (SciPy, GAMS, Pyomo)

Statistical Analysis

Examples: Time series analysis, Causal discovery (DirectLiNGAM), Causal inference (DoWhy, EconML), Network analysis (Cytoscape, Gephi, Tulip)

Machine Learning

Example: Generative adversarial networks (GANs), Sparse regression (PyTorch)

Natural Language Processing

Example: Topic modeling, RAG, Similarity Search (LangChain FAISS)

Image Processing

Examples: Image feature point matching, Segmentation, Pose extraction (Control Net), LoRA

3D Computer Graphics

Examples: Serious game development with Unity, Generative art using Processing, Video editing with AviUtl, Custom virtual world creation in cluster

Information Retrieval, Database

Examples: Data extraction from databases (SPARQL, SQL), Network analysis using graph database (Neo4j, Cypher), Web scraping and automation, Structural homology search using Matras, Sequence homology search using MEGA6 and ClusterW

Geospatial Information Processing

Examples: Geographical mapping using GeoPandas and QGIS

Earth Observation (EO) data analysis

Examples: Satellite image data collection and processing (Google Earth Engine), Handling of various EO data (ECMWF weather (NetCDF, Xarray), VIIRS night light, MODIS NDVI vegetation distribution)

Large-scale data processing

Examples: Distributed processing (PySpark)

Dashboard Development

Examples: Creating dashboards using BI tools (Tableau, Power BI) and libraries (Streamlit, Gradio, Dash)

Cloud Computing

Examples: Azure (OpenAl Service, Al Language, App Service, Al Search, Cosmos DB)

No-Code & Low-Code Tool Utilization

Examples: Neural Network Console, ComfyUI, Dify

Version Control Example: Git/GitHub

Proficiency in Programming Languages

Python Able to cover the full data value chain including strategy formulation, data collection, preprocessing,

visualization, analysis, and evaluation. Skilled in integrating with cloud services via APIs and building deep

learning models either from scratch or via fine-tuning. Holds Paiza Rank A (Advanced Programmer).

C++ Holds Paiza Rank B (Intermediate Programmer).

C# Able to independently develop and publish games using Unity.

HTML/CSS/JavaScriptCapable of developing and publishing websites from scratch without using templates.

Google Apps Script Able to develop and deploy custom Slack apps integrated with Google Sheets.

SQL Can query necessary data assuming a relational database and infrastructure are already in place.

Qualifications

2011.9

Standard motor vehicle driver's license (Currently known as: Semi-mid-sized motor vehicle driver's license)

(Vehicle is limited to 5 ton) (Automatic Transmission (AT) only)

2013.12 2013.12 2013.7 2016.5 2016.5 2016.11 2016.12 2016.12 2016.12 2016.12 2016.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.12 2017.13 2017.13 2017.13 2017.14 2017.8 2017.15 2017.8 2017.15 2017.8 2017.16 2017.16 2017.17 2017.8 2017.18 2017.18 2017.19 2017.19 2017.19 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2017.10 2
IELTS Academic Overall Score 6.5
EdX Verified Certificate "META101x: Philosophy and Critical Thinking" (Queensland Univ.) Complexity Explorer Certificate for Introduction to Complexity (Fall 2016, ID: 15073281) (Santa Fe Institute) edX Verified Certificate "UT.9.10x: Effective Thinking Through Mathematics" (University of Texas, Austin) Japan Statistical Society Certificate (Grade 2, ID: z7ub-ttss-mu32) Python Engineer Development Association Python 3 Basic Grammar Certification (ID: 6asg-bw7p-hp34) The Open University of Japan OUJ Experts (Mathematics for social science, ID: 12Z119567 / Computer science basic knowledge, ID: 12Z119568) OUJ Experts certification Tests: CG engineer test (expert level, ID: 1812300040), Image processing engineer test (basic level, ID: 1813400101) Japan Deep Learning Association JDLA Deep Learning for GENERAL FutureLearn Certificate "Artificial Intelligence (Al) for Earth Monitoring" (EUMETSAT and European Centre for Medium-Range Weather Forecasts (ECMWF)) Coursera course certificate "Global Warming II: Create Your Own Models in Python" (The University of Chicago) Climate Change Al Summer School 2023 Certificate of Attendance (Virtual) NVIDIA Deep Learning Institute Certificate: Develop, Customize, and Publish in Omniverse With Extensions (ID Number: f5216e5a255d4d1e87e243232e2ae5e1)
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[18] 2024.3 AZ-900: Microsoft Azure Fundamentals Certificate
[19] 2024.4 Motivation Manager Basic (accredited by the Motivation Management Association, Japan) Certificate
[20] 2024.7 Duolingo English Test 130 (Advanced: CEFR C1)
[Individual Subscores]
Speaking 125 Writing 145 Reading 125 Listening 125
[Integrated Subscores]
Production 135 Literacy 135 Comprehension 125 Conversation 125
[21] 2024.8 IELTS Overall band score 6.5
Listening 7.0 Reading 7.0 Writing 6.5 Speaking 6.0
[22] 2025.3 Coursera course certificate "Introduction to Project Management" (IBM)
[23] 2025.3 Coursera course certificate "Structured Approach to Problem Solving" (Fractal Analytics)
[24] 2025.3 World Bank Course certificate "Reproducible Research Fundamentals" (The World Bank Group Institute for
Economic Development)
[25] 2025.10 Semi-mid-sized motor vehicle driver's license (Vehicle is limited to 5 ton) (Automatic Transmission (AT) & Manual
Transmission (MT))

Completed watchlist (Note to self)

[1]	2023	YouTube] Houdini Fundamentals	
[2]	2024	[Udemy] Unreal Engine5 beginner: Cinematic film making course	
[3]	2024	[LinkedIn Learning] Leading Yourself	
[4]	2025	[Udemy] [Beginner] Making Animation by Blender 2.8 and making it move by Unity	

Experiences

Experiences	
Overseas Clinical Clerkship	One month of experience in international clinical training as a student doctor at the division of
	infectious diseases of Tan Tock Seng Hospital (via Special Clinical Electives Program by Yong
	Loo Lin School of Medicine, National University of Singapore, 2017)
Jazz Bar Waiter	JAZZ & BOOZE Milestone (part-time job 2011-2012)
Private teacher (for elementary school kids to high school students)	Ecole Nagasaki (part-time job 2012-2015)
Media artist, Creative coder	Konel Inc. (part-time job 2020-2021)