

# Shusaku

# Egami

Researcher



## Personal Info

### Email

s-egami@mail.uec.jp

### LinkedIn

<https://www.linkedin.com/in/s-egami/>

## Skills

Programming Language: Java, Python, HTML, CSS, JavaScript, SPARQL, RDF/OWL, XML/XMLSchema/XSLT, SQL, PHP

Tools and Framework: Protégé, GraphDB, Virtuoso, LAMP, SQLite, Jena, RDFlib, Keras, ArcGIS, Bootstrap, jQuery, WordPress, Flarum, Git, LaTeX

## Languages

Japanese

English

## Hobby/Interest

Pen spinning (a.k.a Ease), Trekking, and Fishing

Researcher adept at data collection, knowledge acquisition, knowledge graph construction, graph representation learning, and reasoning. Well-versed in semantic web research protocols. Please see my publications: <https://profile.idease.info/>

## Work History

- 2020-10  
- present  
**Researcher**  
*National Institute of Advanced Industrial Science and Technology (AIST), Koto, Tokyo, Japan*  
Data-knowledge integration research
- 2019-04  
- present  
**Part-Time Lecturer**  
*Hosei University, Koganei, Tokyo, Japan*  
Two courses: "Semantic Web" and "Agent Technology"
- 2019-04  
- 2020-10  
**Researcher**  
*Electronic Navigation Research Institute (ENRI), Chofu, Tokyo, Japan*  
Semantic web research for advanced air traffic management
- 2018-04  
- 2019-03  
**Research Fellowships for Young Scientists**  
*Japan Society for the Promotion of Science, Chiyoda, Tokyo, Japan*  
Doctoral research
- 2017-06  
- 2019-03  
**Part-Time System Engineer**  
*Japan Science and Technology Agency, Chiyoda, Tokyo, Japan*  
Developed science maps
- 2015-02  
- 2015-05  
**Internship Student**  
*Vasily Inc., Shibuya, Tokyo, Japan*  
Developed a web application for fashion coordination
- 2014-08  
- 2014-09  
**Internship Student**  
*NTT R&D Center, Yokosuka, Kanagawa, Japan*  
Developed a semantic web service for business support

## Education

- 2016-04  
- 2019-03  
**Informatics, Doctor of Engineering**  
*The University of Electro-Communications, Chofu, Tokyo*
- 2014-04  
- 2016-03  
**Social Intelligence and Informatics, Master of Engineering**  
*The University of Electro-Communications, Chofu, Tokyo*
- 2010-04  
- 2014-03  
**Applied Informatics, Bachelor of Science and Engineering**  
*Hosei University, Koganei, Tokyo*

## Projects

- 2022-04  
- 2025-03  
**Principal Investigator**  
*Study on event knowledge graph construction considering semantic validity, query performance, and prediction accuracy*

Organization

- Japan Society for the Promotion of Science: JP

Funding subtype

- Grant-in-Aid for Early-Career Scientists

Total funding amount

- JPY 4,420,000

2020-08

- 2021-03

### **Co-Investigator**

*Foundation of the management platform of patients' locational data for pandemic response*

Organization

- Japan Agency for Medical Research and Development: JP

Total funding amount

- JPY 38,000,000

2019-08

- 2021-03

### **Principal Investigator**

*Study on construction and transfer learning of knowledge graphs of heterogeneous data for predicting traffic obstruction factor*

Organization

- Japan Society for the Promotion of Science: JP

Funding subtype

- Grant-in-Aid for Research Activity start-up

Total funding amount

- JPY 2,860,000

2019-04

- 2024-03

### **Co-Investigator**

*Systematization of reasoning and estimation technologies based on knowledge graph for realizing interpretable AI system*

Organization

- Japan Society for the Promotion of Science: JP

Funding subtype

- Grant-in-Aid for Scientific Research (B)

Total funding amount

- JPY 17,030,000

2018-04

- 2019-03

### **Principal Investigator**

*Constructing infrastructure for reasoning social problems' causal relations and their cost-effectiveness*

Organization

- Japan Society for the Promotion of Science: JP

Funding subtype

- KAKENHI, Grant-in-Aid for JSPS Fellows (DC2)

Total funding amount

- JPY 800,000

2017-04

- 2018-03

### **Constructing Linked Open Data of social problems in Osaka City**

*Principal Investigator*

Organization

- Telecommunications Advancement Foundation: JP

Total funding amount

- JPY 1,430,000

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## Volunteering

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2015-07 - present	<i>Executive Committee Member, Linked Open Data Challenge Japan</i>
2021-04 - 2021-10	<i>Research Track Program Committee Member, The 21st International Semantic Web Conference (ISWC2022)</i>
2022-02 - 2022-12	<i>Technical Program Committee Member, International Workshop on ATM/CNS (IWAC2022)</i>
2021-04 - 2022-03	<i>Program Committee Member, The 1st International Workshop on Knowledge Graph Reasoning for Explainable Artificial Intelligence (KGR4XAI2021)</i>
2021-04 - 2021-10	<i>Research Track Program Committee Member, The 20th International Semantic Web Conference (ISWC2021)</i>
2020-04 - 2020-11	<i>Research Track Program Committee Member, The 19th International Semantic Web Conference (ISWC2020)</i>

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## Awards

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2021-10	<b>Best Poster Award, The 20th International Semantic Web Conference (ISWC2021), Online</b>
2019-09	<b>Outstanding Poster Presentation Award, Joint Agent Workshop and Symposium (JAWS2019), Oita, Japan</b>
2019-06	<b>JSAI Incentive Award 2018, Japanese Society for Artificial Intelligence</b>
2018-03	<b>President's Award, The University of Electro-Communications</b>
2018-03	<b>IoT Award, Linked Open Data Challenge Japan 2017</b>
2017-09	<b>Outstanding Presentation Award, Japan Society for Software Science and Technology (JSSST2017), Kanagawa, Japan</b>
2017-03	<b>Entertainment LOD Award, Linked Open Data Challenge Japan 2016</b>
2016-03	<b>President's Award, The University of Electro-Communications</b>
2016-03	<b>Best Dataset Award in Dataset Category, Linked Open Data Challenge Japan 2015</b>
2014-03	<b>Best Bachelor Thesis Presentation Award, Department of Applied Informatics, Faculty of Science and Engineering, Hosei University</b>

2014-03

**Best Dataset Award, Linked Open Data Challenge Japan  
2013**