

Haruna Fujioka

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PhD Student, Research Fellow of the Japan Society (JSPS)

Graduate School of Arts & Sciences

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BORN: March/20/1993 PLACE OF BIRTH: Ibaraki CITIZENSHIP: Japan

EDUCATION

- 2017- present
Ph.D. in Laboratory of Biology,
Department of General System Studies,
Graduate School of Arts & Sciences, University of Tokyo
Supervisor: Dr. Takehito Yoshida, Masakazu SHIMADA
- 2017
Master of Arts, University of Tokyo,
Supervisor: Dr. Masakazu SHIMADA
- 2015
Bachelor of Science, Chuo University (Tokyo)

RESAECCH SUPPORT

- 2018 - present
Research Fellow of the Japan Society for the Promotion of Science (JSPS DC2)
- 2018
Leave a Nest Grant, Deep learning Award
Funding Agency: Sony Network Communications Inc.
Amount: 500,000JPY

- 2017-2018

Public Interest Incorporated Foundation, The Sasakawa Scientific Research Grant

Funding Agency: The Japan Science Society

Amount: 750,000JPY

PUBLICATIONS (refereed)

Haruna Fujioka, Masato S. Abe, Taro Fuchikawa, Kazuki Tsuji, Masakazu Shimada, Yasukazu Okada*,

"Ant circadian activity associated with brood care type."

Biology letters 13.2 (2017): 20160743.

Masato S. Abe, **Haruna Fujioka**,

"Quantitative measurement of behavior and data analysis in social animals" (動物社会における行動の定量的計測とデータ解析),

Journal of the Robotics Society of Japan, 35.6 (2017): 455-458.

CONFERENCE PROCEEDINGS (refereed)

Haruna Fujioka, Masato S. Abe and Yasukazu Okada,

"Effect of age differences and group size on circadian activity rhythms in queen-less ant *Diacamma* sp. from Japan."

SWARM, Kyoto University, October 29 - November 1, 2017

Masato S. Abe, **Haruna Fujioka**, Yasukazu Okada.

"Characterizing spontaneous active and inactive patterns in ant individuals."

SWARM, Kyoto University, October 29 - November 1, 2017

PRESENTATIONS

Haruna Fujioka, Masato Abe, Masakazu Shimada, Yasukazu Okada,

"Evidence for shift work in the soldiers of *Camponotus nipponicus*"

ESJ64, WASEDA University, Tokyo, March, 2017

Haruna Fujioka, Masato Abe, Yasukazu Okada,

“Automatic tracking reveals temporal organization in ant colony”

T12 : Exploiting digital tools to generate new insights into behaviour and ecology, ESJ64, Sapporo, March, 2018

INTERNATIONAL CONFERENCES

Haruna Fujioka, Masato S. Abe, Masakazu Shimada, Yasukazu Okada,

“Brood type defines circadian activity of ants.”

ISBE 2016, July 2016, Exeter.

Masato S. Abe, Shin-ichiro Nakayama, **Haruna Fujioka**, Masakazu Shimada.

“Detecting interaction patterns in ant society by cross-embedding method.”

JSMB 2016, September 2016, Fukuoka.

EDUCATIONAL ACTIVITIES

- 2015 – present Teaching Assistant, University of Tokyo
Laboratory experiment in Biology (Life Science)
- 2017 Teaching Assistant, University of Tokyo
Field Work (Observation of Pollinator)
- 2017 Teaching Assistant, University of Tokyo
Science seminar for Fresh-Year (Nest relocation in ant)

SCIENTIFIC SKILLS

Behavioral observation, Image based Tracking, Image analysis, General statistics, Analysis of time-series data, Insect dissection (ovary, brain etc.)

PROFESSIONAL SOCIETIES

- The Ecological Society of Japan (ESJ)
- Japan Ethological Society
- The International Union for the Study of Social Insects (JIUSSI)

藤岡春菜

東京大学総合文化研究科広域科学システム専攻 博士課程

日本学術振興会 特別研究員

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生年月日: 1993/3/20 出生地: 茨城県

学歴

- 2017-
東京大学総合文化研究科広域科学システム専攻 博士課程
指導教官: 吉田丈人
- 2017
学術修士、京大学総合文化研究科広域科学システム専攻,
指導教官: 嶋田正和
- 2015
理学学士、中央大学理工学部生命科学科

外部獲得資金

- 2018 -
日本学術振興会 特別研究員 (JSPS DC2)
- 2018
リバネス研究費 ディープラーニング賞
ソニーネットワークコミュニケーションズ 50万
「アリの社会における順位が生み出す秩序の解明」
- 2017-2018
公益財団法人日本科学協会 笹川科学研究助成 75万
「働かないアリの出現・維持機構の解明 全個体識別トラッキングを用いた行動解析」

業績（査読あり）

Haruna Fujioka, Masato S. Abe, Taro Fuchikawa, Kazuki Tsuji, Masakazu Shimada, Yasukazu Okada*,

"Ant circadian activity associated with brood care type."

Biology letters 13.2 (2017): 20160743.

阿部真人, 藤岡春菜,

動物社会における行動の定量的計測とデータ解析,

日本ロボット学会誌 35.6 (2017): 455-458.

口頭発表

Haruna Fujioka, Masato Abe, Yasukazu Okada,

"Automatic tracking reveals temporal organization in ant colony"

T12 : Exploiting digital tools to generate new insights into behaviour and ecology, ESJ64, Sapporo, March, 2018

藤岡春菜、阿部 真人、嶋田 正和、岡田 泰和

「自動追尾システムを用いたアリ類の活動リズムと社会的相互作用の解析」

日本応用動物学会第 61 回大会、D202、東京農工大学、2017 年 3 月

岡田 泰和、藤岡春菜

「栄養生理からみたアリのコロニー統合」

日本応用動物学会第 61 回大会、H105、東京農工大学、2017 年 3 月

Haruna Fujioka, Masato Abe, Masakazu Shimada, Yasukazu Okada,

"Evidence for shift work in the soldiers of *Camponotus nipponicus*"

ESJ64, WASEDA University, Tokyo, March, 2017

阿部真人、藤岡春菜

「トラッキングを用いた社会性昆虫の動態と個体間相互作用の解析」

日本応用動物学会第 60 回大会、W27: 多次元画像ビッグデータを活用した動物学の新 展開、大阪、2016 年 3 月

国際学会

Masato S. Abe, Shin-ichiro Nakayama, **Haruna Fujioka**, Masakazu Shimada,
“Detecting interaction patterns in ant society by cross-embedding method.”
JSMB 2016, September 2016, Fukuoka.

Haruna Fujioka, Masato S. Abe, Masakazu Shimada, Yasukazu Okada,
“Brood type defines circadian activity of ants.”
ISBE 2016, July 2016, Exeter.

(修士・博士課程学生のための国際研究集会渡航助成)

所属学会

日本生態学会、日本動物行動学会、国際社会性昆虫学会日本支部