

# Takayuki Nagamine

RESEARCH ASSISTANT (UCL SHAPS) · PHD CANDIDATE (LANCASTER UNIVERSITY)

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## Research Keywords

- Articulatory Phonetics
- Acoustic Phonetics
- Ultrasound Tongue Imaging
- Second Language Acquisition
- Quantitative Analysis using R

## Current Appointment

**Speech, Hearing and Phonetic Sciences (SHaPS), University College London**

United Kingdom

RESEARCH ASSISTANT

2024 - present

- Leverhulme-funded project: "Speech production processes in resolving articulatory variation"
- PIs: Professor Patti Adank (UCL), Dr Chris Carignan (UCL), Professor Adamantios Gafos (Universität Potsdam)

## Education

**Lancaster University**

United Kingdom

PHD LINGUISTICS

2020 - present

- Supervisors: Professor Claire Nance & Dr Sam Kirkham
- Member of the Lancaster University Phonetics Lab
- PhD project: Acoustic and articulatory dynamics of L2 English liquids produced by L1 Japanese speakers

**University College London**

United Kingdom

MA LINGUISTICS (WITH MERIT)

2015 - 2016

- Supervisor: Dr Bronwen Evans
- Dissertation: Attitudes towards English as an international language

**Aichi University of Education**

Japan

BA EDUCATION STUDIES (SPECIALISATION IN SECONDARY SCHOOL ENGLISH LANGUAGE TEACHING)

2010 - 2015

- Undergraduate Dissertation Supervisor: Dr Yasuhiro Fujiwara (Now Professor at Meijo University, Japan)
- Dissertation: Effect of Japanese university students' attitudes towards varieties of English on their listening comprehension
- Semester Abroad: Newman University, Birmingham, United Kingdom. (September 2012 - January 2013)
- Overseas Teaching Training: St. Joseph's Catholic Primary School, Bundaberg, Australia. (August 2013)

## Previous Appointments

- 2022-24 **Associate Lecturer**, Dep. of Linguistics and English Language, Lancaster University, United Kingdom
- 2023 **English for Academic Purpose (EAP) Pre-sessional Course Instructor**, Lancaster University, United Kingdom
- 2022-23 **TARDIS Project Research Assistant (Phonetics research)**, Lancaster University, United Kingdom
- 2020 **Part-time University Lecturer**, Various institutions in the Aichi area in Japan
- 2019-20 **Lecturer of English as a Foreign Language**, Nagoya University of Foreign Studies, Japan
- 2018-21 **Visiting Research Fellow**, Institute of Translation and Interpreting, Aichi Prefectural University, Japan
- 2017-19 **Part-time University Lecturer**, Various institutions in the Aichi area in Japan
- 2016-19 **LOCSE Project Research Assistant (Corpus transcription)**, Chuo University, Japan
- 2016-18 **Research Assistant (English language support coordinator)**, Aichi University of Education, Japan

## Publications

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### PEER-REVIEWED JOURNAL ARTICLE

Strycharczuk, P., Kirkham, S., Gorman, E., & **Nagamine, T.** (Forthcoming). Towards a dynamical model of English vowels: Evidence from diphthongisation. *Journal of Phonetics*.

**Nagamine, T.** (2024). Formant dynamics in second language speech: Japanese speakers' production of English liquids. *The Journal of Acoustical Society of America*, 155(1), 479-495. <https://doi.org/10.1121/10.0024351>.

### CONFERENCE PROCEEDINGS

Morimoto, M., & **Nagamine, T.** (2024). Spatio-temporal properties of Japanese coronal consonants: An ultrasound study of /d/ and /r/. *Proceedings of the 13th International Seminar on Speech Production* (pp. 153-156). [https://issp24.sciencesconf.org/data/pages/proceedings\\_long\\_papers.pdf](https://issp24.sciencesconf.org/data/pages/proceedings_long_papers.pdf)

**Nagamine, T.** (2023). Dynamic tongue movements in L1 Japanese and L2 English liquids. In R. Skarnitzl & J. Volín (Eds.), *Proceedings of the 20th International Congress of Phonetic Sciences* (pp. 2442-2446). Guarant International. <https://guarant.cz/icphs2023/198.pdf> [Peer-reviewed]

Nance, C., Dewhurst, M., Fairclough, L., Forster, P., Kirkham, S., **Nagamine, T.**, Turton, T., & Wang, D. (2023). Acoustic and articulatory characteristics of rhoticity in the North-West of England. In R. Skarnitzl & J. Volín (Eds.), *Proceedings of the 20th International Congress of Phonetic Sciences* (pp. 3573-3577). Guarant International. <https://guarant.cz/icphs2023/217.pdf> [Peer-reviewed]

Kirkham, S., Strycharczuk, P., Gorman, E., **Nagamine, T.**, & Wrench, A. (2023). Co-registration of high-speed ultrasound and electromagnetic articulography for speech production research. In R. Skarnitzl & J. Volín (Eds.), *Proceedings of the 20th International Congress of Phonetic Sciences* (pp. 918-922). Guarant International. <https://guarant.cz/icphs2023/145.pdf> [Peer-reviewed]

**Nagamine, T.** (2022). Acquisition of allophonic variation in second language speech: An acoustic and articulatory study of English laterals by Japanese speakers. *Proceedings of Interspeech 2022* (pp. 644-648). <https://doi.org/10.21437/Interspeech.2022-11020> [Peer-reviewed]

Miura, A., & **Nagamine, T.** (2022). Using synchronous computer-mediated communication to develop L2 learners' oral fluency. In J. Levis & A. Guskarska (eds.), *Proceedings of the 12th Pronunciation in Second Language Learning and Teaching Conference*. <https://doi.org/10.31274/psllt.13347> [Peer-reviewed]

**Nagamine, T.** (2020). Intelligibility of varieties of English and listeners' language learning backgrounds. In O. Kang, S. Staples, K. Yaw, & K. Hirschi (Eds.), *Proceedings of the 11th Pronunciation in Second Language Learning and Teaching conference* (pp. 261-269). <https://iastatedigitalpress.com/psllt/article/id/15430/> [Peer-reviewed]

### RESEARCH NOTES, BULLETIN PAPERS

Oiwa, S., & **Nagamine, T.** (2021). Towards applications of ultrasound tongue imaging in L2 pronunciation teaching: On the analysis of French vowels /i y u/. *Bulletin of Nagoya University of Foreign Studies*, 9, 193-210. <https://iss.ndl.go.jp/books/R100000002-I028481497-00> [Brief report: In Japanese]

**Nagamine, T.** (2021). Towards development of listening skills underpinning interpretation in the ELF era: A perspective on the relationship between speech perception and articulatory phonetics. *Annual Bulletin of Institute of Translation and Interpreting*, 13, 43-56. Aichi Prefectural University. <http://doi.org/10.15088/00004645> [Brief report: In Japanese]

**Nagamine, T.** (2020). The role of listeners in English as a lingua franca: Lesson from interpreting for nurturing "ELF listeners". *Annual Bulletin of Institute of Translation and Interpreting*, 12, 37-57. Aichi Prefectural University. <http://doi.org/10.15088/00004342> [Brief report: In Japanese]

Robins, C. A., & **Nagamine, T.** (2019). How inbound international students can help the classroom environment through successful interaction with Japanese students. *Studies in Foreign Languages & Literature*, 51, 97-114. Aichi University of Education, Department of English. <http://hdl.handle.net/10424/00008228>

Ryan, G. A., & **Nagamine, T.** (2017). A proposal for a CLIL-oriented period for integrated studies in elementary school in Japan. *Studies in Foreign Languages & Literature*, 50, 77-96. Aichi University of Education, Department of English. <http://hdl.handle.net/10424/00007178>

## SUBMITTED FOR JOURNAL PUBLICATION

Strycharczuk, P., Kirkham, S., Gorman, E., & **Nagamine, T.** (Submitted). Dimensionality reduction in lingual articulation of vowels.

Nance, C., Dewhurst, M., Fairclough, L., Forster, P., Kirkham, S., Lo, J., McMonagle, J., **Nagamine, T.**, Parkman, S., Rabani, H., Siem A. B., Turton, T., & Wang, S. (Resubmitted). Articulatory phonetics in the Market: Combining public engagement with ultrasound data collection.

**Nagamine, T.** (Submitted). Learning to resist: Japanese speakers' production of liquid-vowel coarticulation in L2 English.

**Nagamine, T.** (Submitted). Cross-speaker comparisons of tongue shapes using ultrasound tongue imaging.

## Presentations

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### INVITED TALKS

November 2022. Researching pronunciation using ultrasound tongue imaging: A case of L1 Japanese speakers' production of English /l/ and /r/. Workshop hosted by SIG on Phonetics & Institute of Translation and Interpreting at Aichi Prefectural University, Japan (Online).

December 2021. Linguistic knowledge required in English language teaching in Japan in the ELF era (Co-presented with Yujitsu Ohmori and Takao Imai). The Chubu Chapter Meeting of Japan Association of College English Teachers, Japan (Online).

November 2021. Science of second language pronunciation: Speech research in the era of internationalisation. Workshop hosted by SIG on Phonetics & Institute of Translation and Interpreting at Aichi Prefectural University, Japan (Online).

November 2020. Speech research through Visualisation: Articulatory properties of English /r/. Workshop hosted by SIG on Phonetics & Institute of Translation and Interpreting at Aichi Prefectural University, Japan (Online).

November 2019. Speech perception of English in the ELF era. Workshop hosted by SIG on Phonetics & Institute of Translation and Interpreting at Aichi Prefectural University, Japan.

April 2017. Attitudes towards Japan English and its features. Forum of Paradigm Shifting in Asian Englishes: Promoting an ELF Mindset in Japan, Aichi University, Japan.

### CONTRIBUTED PRESENTATIONS

Strycharczuk, P., Kirkham, S., Gorman, E., **Nagamine, T.**, & Leeman, A. (2024, June 27-29). Gender-specific behaviour in vowel articulation. (Oral presentation). The 19th Conference on Laboratory Phonology: LabPhon 19, HIPCS, Hanyang University, Seoul, South Korea.

**Nagamine, T.** (2024, May 13-17). Acquisition of articulatory dynamics in second language speech: Japanese speakers' production of English and Japanese liquids. (Poster presentation). The 13th International Seminar on Speech Production (ISSP), L'Escandille, Autrans, France.

Morimoto, M., & **Nagamine, T.** (2024, May 13-17). Spatio-temporal properties of Japanese coronal consonants: An ultrasound study of /d/ and /r/. (Poster presentation). The 13th International Seminar on Speech Production (ISSP), L'Escandille, Autrans, France.

**Nagamine, T.** (2024, March 25-27). Using Functional Principal Component Analysis for articulatory dynamics of English liquids: L1 Japanese speakers' production of English /l/ and Japanese /r/. (Oral presentation). The Colloquium of the British Association of Academic Phoneticians 2024 (BAAP2024), Cardiff University, Cardiff, United Kingdom.

Strycharczuk, P., Kirkham, S., Gorman, E., & **Nagamine, T.** (2024, March 25-27). Dimensions of stability in vowel articulation. (Accepted for Oral presentation). The Colloquium of the British Association of Academic Phoneticians 2024 (BAAP2024), Cardiff University, Cardiff, United Kingdom.

**Nagamine, T.**, & Morimoto, M. (2024, January 20). Project U-DNR: Articulatory research of Japanese consonants /d n r/ using ultrasound. (Poster presentation, project overview). Linguistics Festival 2024, online, Japan.

Miura, A., & **Nagamine, T.** (2023, August 23-25). Writing as your speaking practice tutor: Anatomizing the practice modality on L2 speaking training. (Poster presentation). British Association for Applied Linguistics (BAAL) 56th Annual Conference, University of York, York, United Kingdom.

**Nagamine, T.** (2023, August 11). Dynamic tongue movements in L1 Japanese and L2 English liquids. The 20th International Congress of Phonetic Sciences (ICPhS), Prague Congress Centre, Prague, Czech Republic.

- Nance, C., Dewhurst, M., Fairclough, L., Forster, P., Kirkham, S., **Nagamine, T.**, Turton, T., & Wang, D. (2023, August 11). Acoustic and articulatory characteristics of rhoticity in the North-West of England. The 20th International Congress of Phonetic Sciences (ICPhS), Prague Congress Centre, Prague, Czech Republic.
- Kirkham, S., Strycharczuk, P., Gorman, E., **Nagamine, T.**, & Wrench, A. (2023, August 11). Co-registration of high-speed ultrasound and electromagnetic articulography for speech production research. The 20th International Congress of Phonetic Sciences (ICPhS), Prague Congress Centre, Prague, Czech Republic.
- Strycharczuk, P., Kirkham, S., Gorman, E., & **Nagamine, T.** (2023, May 26). On the phonological representation of English diphthong vowels. The 30th Manchester Phonology Meeting, The University of Manchester, Manchester, United Kingdom.
- Nagamine, T.** (2022, November 4). Acoustic, perceptual and articulatory properties of second language speech; A case of Japanese speakers' production of the English /l r/ contrast. Ultrafest X, University of Manchester, Manchester, United Kingdom.
- Nagamine, T.**, & Nishio, Y. (2022, July 31). Vowels in Asian Englishes speech: Acoustics, functional load, and implications to the listening pedagogy. The 49th National Conference of the Japanese Association for Asian Englishes (Online).
- Nagamine, T.**, & Miura, A. (2022, April 20). Write to speak: Effects of timed writing practice on development of the L2 learners' oral performance. (Poster presentation). NewSounds 2022: The 10th International Symposium on the Acquisition of Second Language Speech, University of Barcelona, Barcelona, Spain.
- Nagamine, T.**, & Suzuki, S. (2022, April 4). Dynamic phonetic correlates of liquid contrasts in Japanese speakers of English. BAAP 2022: Colloquium of the British Association of Academic Phoneticians, University of York, York, United Kingdom (Online).
- Ohmori, Y., **Nagamine, T.**, & Imai, T. (2021, August 27). Linguistic knowledge to prepare English learners for the diversity in the ELF era. (Poster presentation). The 60th Japan Association of College English Teachers International Convention, Japan (Online).
- Miura, A., & **Nagamine, T.** (2021, June 18). Using synchronous computer-mediated communication to develop L2 learners' oral fluency. (Poster presentation). The 12th annual Pronunciation in Second Language Learning and Teaching (PSLLT) Conference, Brock University, Ontario, Canada (Online).
- Ohmori, Y., **Nagamine, T.**, & Imai, T. (2019, November 30). Linguistic knowledge required in English language teaching in the ELF era: Affinity for interpreting and translation. (Poster presentation). The 2nd Meeting of JAAL in JACET, Takachiho University, Tokyo, Japan.
- Nagamine, T.** (2019, September 13). Comprehensibility of accented speech and listeners' language learning backgrounds. (Poster presentation). The 11th annual Pronunciation in Second Language Learning and Teaching (PSLLT) Conference, Northern Arizona University, Arizona, US.
- Ohmori, Y., **Nagamine, T.**, & Imai, T. (2019, August 30). What ideal teachers of English should know in the mind in the era of ELF: Affinity for interpreting and translation. (SIG Symposium). The 58th Japan Association of College English Teachers International Convention, Nagoya Institute of Technology, Nagoya, Japan.
- Nagamine, T.**, & Evans, B. G. (2017, November 20). Investigating attitudes towards Japan English. The 43rd National Conference of Japan Association for Language Teaching (JALT), Tsukuba International Congress Centre (Epochal Tsukuba), Ibaraki, Japan.
- Robins, C. A., & **Nagamine, T.** (2017, November 20). Inbound and local, shaping the classroom together! The 43rd National Conference of Japan Association for Language Teaching (JALT), Tsukuba International Congress Centre (Epochal Tsukuba), Ibaraki, Japan.
- Akatsuka, M., **Nagamine, T.**, & Yamami, Y. (2017, October 21). Effects of a combination of chants and visual rhythmic notation for in-service primary school teachers. The 22nd National Conference of English Phonetic Society of Japan (EPSJ) and the 3rd International Congress of Phoneticians of English, Seinan Gakuin University, Fukuoka, Japan.
- Nagamine, T.**, & Fujiwara, Y. (2014, December 21). Positive effects from an overseas teaching practice programme in Australia: As a participant and a peer-mentor. The 2014 Conference of the CELES Aichi Chapter, Meijo University, Aichi, Japan.

## Awards, Fellowships, & Grants

2023	<b>FASS PGR Conference Presentation Grant (ICPhS2023)</b> , Lancaster University	£ 500
2022	<b>Interspeech2022 Travel Grant</b> , International Speech Communication Association	€ 600
2022	<b>FASS PGR Conference Presentation Grant (NewSounds2022)</b> , Lancaster University	£ 500
2022	<b>The Murata Foundation Research Grant</b> , Murata Science Foundation	¥ 1,000,000
2021	<b>Research Grant</b> , Japan Association for Asian Englishes	¥ 100,000
2020	<b>Graduate Scholarship for Degree Seeking Students</b> , Japan Student Services Organization	¥ 4,248,000
2015	<b>Graduate Scholarship for Degree Seeking Students</b> , Japan Student Services Organization	¥ 1,924,000
2012	<b>Baba Foundation Scholarship</b> , Japan Educational Exchanges and Services	¥ 500,000

## Teaching Experience

2023-24	<b>LING325 Topics in Phonetic and Phonological Theory (Seminar)</b> , Lancaster University	UK
2023-24	<b>LING327 Advanced English Phonetics (Seminar)</b> , Lancaster University	UK
2023	<b>English for Academic Purposes (EAP) Pre-session Course Tutor</b> , Lancaster University	UK
2022-24	<b>LING221 Sounds of the world's languages (Seminar)</b> , Lancaster University	UK
2022-23	<b>LING103 Linguistics (Lecture)</b> , Lancaster University	UK
2022-23	<b>LING223 English Phonetics (Seminar)</b> , Lancaster University	UK
2017-19	<b>English Phonetics (Lecture)</b> , Aichi Prefectural University	Japan
2018-19	<b>Introduction to English Phonetics (Lecture)</b> , Nagoya University of Foreign Studies	Japan
2018-20	<b>Language and sounds (Lecture)</b> , Nagoya University of Foreign Studies	Japan
2017-20	<b>General/Academic English</b> , Various institutions in the Aichi area	Japan

## Professional Development & Outreach

### SKILLS

**Language** Japanese (native), English (excellent command: CEFR C1), German (beginner: CEFR A2)

**Computer** R/R Studio, Praat, Gorilla, Microsoft Office®, LaTeX, Moodle, Articulate Assistant Advanced

**Technical** Ultrasound Tongue Imaging, Acoustic Analysis, Quantitative Analysis, Functional Analysis, Bayesian Analysis

### AD-HOC REVIEWER

Journal article: Journal of Acoustical Society of America (AIP Publishing)

Journal article (co-reviewer): Open Research Europe

Journal article: Studies in Second Language Acquisition (Cambridge University Press)

Journal article: Language Teaching Research (SAGE)

Book chapter: Multilingual acquisition and learning: An ecosystemic view to diversity (John Benjamins)

### SERVICE AND OUTREACH

**Student volunteer**, the Being Human Festival (led by the School of Advanced Study at the University of London, the Arts and Humanities Research Council and the British Academy): Promoting ultrasound phonetics research by setting up a stall and providing people with opportunities to visualise their speech. Held at Burnley Market, UK. November 2023.

- Details: <https://www.beinghumanfestival.org/events/lancashire-tongues>

- Media coverage: <https://www.bbc.co.uk/news/uk-england-lancashire-67345388>

**Taster lecture lecturer**, Phonetics taster lecture for students from Blackpool Sixth Form College visiting Lancaster University. Held at Lancaster University, UK. November 2023.

**Student volunteer**, Light Up Lancaster (the annual family festival of light and art in Lancaster): Promoting phonetics research to the community. Held in Lancaster city centre, UK. November 2023.

- Details: <https://info.dukeslancaster.org/p/777E-BI0/lightuplancaster23>

**Student volunteer**, the Economic and Social Research Council (ESRC) Festival of Social Sciences: Promoting ultrasound phonetics research by setting up a stall and providing people with opportunities to visualise their speech. Held at Blackburn Market, UK. November 2022.

- Media coverage: <https://www.bbc.co.uk/news/uk-england-lancashire-67345388>

**Guest lecturer**, Kobe Gakuin University: Introducing phonetics research using ultrasound tongue imaging to undergraduate students. Kobe Gakuin University, Kobe, Japan. October 2022.

- University's press article (in Japanese): [https://www.kobegakuin.ac.jp/education/faculty\\_global/news/988939cb1a72698c58a1.html](https://www.kobegakuin.ac.jp/education/faculty_global/news/988939cb1a72698c58a1.html)

**Guest lecturer**, Meijo University: Introducing phonetics research using ultrasound tongue imaging to undergraduate students. Meijo University, Aichi, Japan. October 2022.

- University's press article (in Japanese): [https://www.meijo-u.ac.jp/news/detail\\_28009.html](https://www.meijo-u.ac.jp/news/detail_28009.html)

**Organising committee member**, Lancaster Postgraduate Conference in Linguistics and Language Teaching 2022: Member of the programme committee member for student-led annual postgraduate conference. Held at Lancaster University, UK. July 2022.

**Vice president**, Japan Association for Language Teaching (JALT) Toyohashi Chapter. Toyohashi, Japan. 2018-2023.

## PROFESSIONAL DEVELOPMENT

**Articulatory measurement methods hands-on seminar**: Three-day hands-on tutorials on articulatory methods in speech research, including EMA, ultrasound, EPG, real-time MRI. Organised by Kobe University, Japan. 2022.

**3rd Birmingham Statistics for Linguists Summer School**: One-week course on statistical analysis of linguistic data using R, including mixed-effect modelling, Bayesian statistics and ethics in open research. Organised by University of Birmingham, UK. 2022.

**English Pronunciation Pedagogy Online Course**: Eight-week online course for development of second language pronunciation teaching pedagogy and assessment. Organised by Iowa State University, US (Online). 2021.

**Bayesian Analysis for Speech Science**: Two-day online tutorial on Bayesian statistical analysis in phonetics and speech sciences research. Organised by Association for Laboratory Phonology (Online). 2021.

**Newcastle Phonetics and Phonology Signal Processing Workshop 2021**: Two-day online hands-on tutorials on processing articulatory data from EMA and ultrasound using R. Organised by Newcastle University (Online). 2021.

**Statistics for Experimental Linguists**: One-week tutorials on the theoretical backgrounds of basic quantitative statistical methods for linguistics research. Organised by Utrecht Summer School, Utrecht University, the Netherlands. 2018.

**Summer Course in English Phonetics EFL Strand**: Two-week lectures and small-group tutorials for theories and practical production and listening training of English Phonetics. Organised by University College London, London, United Kingdom. 2016.

## OFFICIAL QUALIFICATION

**Primary School Teacher Licence (All Subjects)**, Second Class, Aichi Prefectural Board of Education, Japan.

**Junior High School Teacher Licence (Foreign Languages)**, First Class, Aichi Prefectural Board of Education, Japan.

**Senior High School Teacher Licence (Foreign Languages)**, First Class, Aichi Prefectural Board of Education, Japan.

## PROFESSIONAL MEMBERSHIPS

International Phonetic Association (IPA)

Association for Laboratory Phonology (LabPhon)

International Speech Communication Association (ISCA)

Japanese Association for Asian Englishes (JAF AE)

Japan Association for Language Teaching (JALT)

Japan Association of College English Teachers (JACET)