

# Takayuki Nagamine

POSTDOCTORAL RESEARCH FELLOW · PHONETICS · SPEECH SCIENCES

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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

NAMED RESEARCH ASSOCIATE

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)
- Co-organiser of the Speech Science Forum (SSF) talk series (with Dr Victor Rosi)

## Education

**Lancaster University**

United Kingdom

PHD LINGUISTICS

2020 - 2024

- 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

- 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. (Forthcoming). Articulatory phonetics in the Market: Combining public engagement with ultrasound data collection. *Linguistics Vanguard*.
- Strycharczuk, P., Kirkham, S., Gorman, E., & **Nagamine, T.** (2024). Towards a dynamical model of English vowels: Evidence from diphthongisation. *Journal of Phonetics*, 107, Article 101349. <https://doi.org/10.1016/j.wocn.2024.101349>.
- 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/. In C. Fougeron & P. Perrier (Eds.), *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.** (Resubmitted). Dimensionality reduction in lingual articulation of vowels.

**Nagamine, T.** (Resubmitted). Quantifying between-speaker variation in ultrasound tongue imaging data

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

## Presentations

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#### INVITED WORKSHOPS

September 2024. Basqueing in ultrasound: Hands-on 3-day workshop on data collection and analysis methods of ultrasound tongue imaging. Hosted by Dr Ander Egurtzegi and Iñigo Urrestarazu (iker-CNRS).

#### 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

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|---------|--|-------|
| 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-sessional 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

**Seminar co-organiser**, Speech Science Forum (SSF: with Dr Victor Rosi), Department of Speech, Hearing and Phonetic Sciences, University College London. AY2024/25.

<https://www.ucl.ac.uk/pals/research/speech-hearing-and-phonetic-sciences/speech-science-forum>

**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)