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## ACADEMIC EMPLOYMENT

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- Post-doc Researcher** October 2019–September 2022  
Linguistics and English language, University of Edinburgh Edinburgh, UK
- [The emergence and evolution of linguistic tone](#) (ERC-funded, P.I.: Dr James Kirby)
  - **Main contributor** to the experimental part: acoustic and perceptual basis of sound change
  - Recent selected projects: [osf.io/jkbgq](https://osf.io/jkbgq)
- Post-doc Research Fellow** August 2017–August 2019  
Speech Communication Lab, Sophia University Tokyo, Japan
- With a two-year [Postdoc Fellowship](#) awarded by [JSPS](#)
  - [Laryngeal mechanisms in speech production and perception: A cross-language study on F0 perturbation](#), Co.I. (with Prof Takayuki Arai)
- Post-doc Research Assistant** (part-time) September 2015–May 2017  
Langues et Civilisations à Tradition Orale, Université Sorbonne Nouvelle Paris, France
- [Evolutionary approaches to phonology](#) (funded by LabEx EFL, with Prof Martine Mazaudon)
  - Fieldwork in Nepal, experimental design and execution, data analysis, dissemination
  - Teaching stint: 54 hours
- Temporary Research and Teaching Attachée** [[ATER](#) ≈ [UK Lecturer](#)] 2014–2015  
Laboratoire de Phonétique et Phonologie, Université Sorbonne Nouvelle Paris, France
- Teaching stint: 192 hours
- Teaching Assistant (as Ph.D. student fellow)** [[Doctorante contractuelle](#) – [monitrice](#)] 2011–2014  
Laboratoire de Phonétique et Phonologie, Université Sorbonne Nouvelle Paris, France
- Teaching stint: 64 hours per year

## EDUCATION

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- Doctorate: Phonetics**, Mention *Très honorable avec félicitations du jury* (highest distinction) May 2015  
Laboratoire de Phonétique et Phonologie, Université Sorbonne Nouvelle Paris, France
- **Thesis**: “Interdependence between Tones, Segments, and Phonation types in Shanghai Chinese: acoustics, articulation, perception, and evolution” [[pdf](#)]
  - Committee: Prof Pierre Hallé (supervisor), Prof Laurent Sagart (chair), Prof Yiya Chen (rapporteuse), Prof Guillaume Jacques (rapporteur), Prof Martine Mazaudon (examiner), Dr Alexis Michaud (examiner)

<b>Master: Phonetics</b> , Mention <i>Très bien</i> (highest distinction) Laboratoire de Phonétique et Phonologie, Université Sorbonne Nouvelle	June 2011 Paris, France
– Thesis: “Étude acoustique des syllables (C)V en shanghaiën : redondance et complémentarité des caractéristiques tonales et segmentales”	
– Committee: Prof Pierre Hallé (supervisor), Prof Annie Rialland, Prof Juan Segui, Prof Jacqueline Vaissière	
<b>Visiting student</b> Sciences Po de Grenoble & Université Stendhal – Grenoble 3	2008–2009 Grenoble, France
– Courses of political science (part of the exchange program) and linguistics (as an auditor)	
<b>Bachelor of Arts: French language and literature</b> Shanghai International Studies University	June 2009 Shanghai, China
– National <a href="#">gaokao 3+1+X</a> (2005): option Physics	

## TEACHING AND SUPERVISION

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- **Involvement in supervision**  
William Peralta (PhD candidate, U. Edinburgh, 2020–current), Dr Jihyeon Yun (Sophia University, 2018–2019)
- **Staff management and coordination** 2019–2020  
with assistants of the EVOTONE project
- **Ph.D. student workshop**, Langues et Civilisations à Tradition Orale January 2017  
Phonetics and doing analysis using Praat
- **Undergraduate courses**, Université Sorbonne Nouvelle 2011–2017  
(mainly independent classes for ~30 students, all given in French)  
*Phonetics 1 (190 hours)*, *Phonetics 3 (18 hours)*, *Phonology 1 (18 hours)*, *Phonology 2 (39 hours)*, *Statistics (48 hours)*, *Lexicology (36 hours)*, *Methodology of academic works (18 hours)*, *Methodology of research in linguistics (39 hours)*, *Workshop of key notions (35 hours)*,  
*Q & A with students (15 hours)*
- Centre langues-culture-communication de Paris summer 2010  
French as a Foreign Language (mainly for Chinese immigrants)

## GRANTS AND AWARDS

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- **Best Early Career Scholar’s Article of The Year 2019**, *Journal of Phonetics* 2020
- Travel bursary for ICPHS 2019, International Phonetic Association 2019
- JSPS Grant-in-Aid for Scientific Research [17F17006](#) ≈ 16 800 £ (Co.I.) 2017–2019
- JSPS two-year [Postdoc Fellowship](#): Standard Program 2017
- [Qualification](#) for university professorship in section 7 (Linguistics) and 15 (Chinese language and literature) of the French National Council of Universities 2016
- Ranked first for a PhD student fellowship at Doctoral School 268, Université Sorbonne Nouvelle 2011
- Outstanding Graduate Award; Outstanding undergraduate thesis; First-Grade scholarships for all terms, Shanghai International Studies University 2005–2009

## PAST ACADEMIC APPLICATIONS

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- Finalist for a Professoriate (Tenure-track) position in Phonology, The Chinese University of Hong Kong 2017
- Short-listed for a [Maître de Conférences](#) (Tenured) position in Phonology and Psycholinguistics, Université Paris–Diderot 2017

- Ranked third for a **Maître de Conférences** (Tenured) position in Phonetics and Phonology, Université Grenoble–Alpes 2016

## SERVICE AND ACTIVITIES

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- **Lead** of the weekly EVOTONE students’ reading group 2021  
Organising and leading critical discussions on scientific articles in speech sciences with students and colleagues
- **Journal reviewer** 2017–2021  
The Journal of the Acoustical Society of America, PLOS ONE, Linguistics Vanguard, Language and Speech, Language & Linguistics 語言暨語言學, Laboratory Phonology, Journal of the International Phonetic Association, Journal of Phonetics, Cahiers de Linguistique Asie Orientale, Ampersand
- **External reviewer** 2019  
National Science Foundation, USA
- **Conference reviewer/scientific committee**  
LabPhon 17 (2020), Proceedings of Speech Prosody (2020), Proceedings of Journées d’études sur la parole (2016), ConSOLE XXIII (2014), Old World Conference in Phonology (2011)
- **Co-convener** 2016–2017  
Monthly meeting *Problèmes d’analyse et de comparaison des langues*, Langues et Civilisations à Tradition Orale
- **Session manager** 2013  
14<sup>th</sup> Interspeech Conference, Lyon
- **Co-organiser/editor** 2011–2013  
Meeting of Young researchers [Rencontres Jeunes Chercheurs] of Doctoral School 268

## DATA ACQUISITION AND ANALYSIS

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- **Phonetic analysis and synthesis:** Praat, Praatdet, emuR/wrassp packages in R, VocalTractLab, VoiceSauce
- **Physiological equipment:** electroglottograph, external photoglottograph, Qualysis motion capture camera
- **Behavioural experimental tools (production/perception):** PsyToolkit (online), Open Sesame, Speech Recorder, E-Prime, PsychoPy
- **Data processing and statistics:** R, Perl, Bash, Matlab, Python
- **Document processing:**  $\text{\LaTeX}$ , Office, Markdown

## LANGUAGES

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- **Chinese (Shanghai, Mandarin):** native
- **French:** near native
- **English:** full professional proficiency
- **Japanese:** (academic) reading, listening, simple writing, speaking with limited fluency
- **Portuguese:** (academic) reading, theoretical understanding of phonology and syntax
- **Others (signed Japanese, Nepali, Scottish Gaelic):** some structured learning

## NON-VERBAL MOTOR SKILLS (AND BEYOND)

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- **Scottish Country Dancing** 2015–pre-COVID  
– Paris Book of Scottish Country Dance, vol. 1 (RSCDS Paris Branch, 2017)  
– みんなでおどろう Let’s dance together, vol. 90 (National Folk Dance Federation of Japan, 2019)
- **Scottish Highland Dancing** 2017–current

## PUBLICATIONS

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### IN PREPARATION/SUBMITTED

**Gao, Jiayin** & James Kirby. in prep. Perceptual equivalence between onset voicing and pitch.

**Gao, Jiayin** & Martine Mazaudon. forthcoming. Flexibility and evolution of cue weighting after a tonal split: an experimental field study on Tamang. Special Issue: Sound change in endangered and small speech communities, *Linguistics Vanguard*.

### JOURNAL ARTICLES

**Gao, Jiayin**, Jihyeon Yun & Takayuki Arai. 2021. Korean laryngeal contrast revisited: An electroglottographic study on denasalized and oral stops. *Laboratory Phonology: Journal of the Association for Laboratory Phonology* 12. 1–29. <https://doi.org/10.5334/labphon.277>.

Hallé, Pierre, Laura Manoiloff, **Jiayin Gao** & Juan Segui. 2021. Monitoring internal speech: an advantage for syllables over phonemes? *Language, Cognition and Neuroscience*. 1–20. <https://doi.org/10.1080/23273798.2021.1941146>. <https://doi.org/10.1080/23273798.2021.1941146>.

**Gao, Jiayin**, Pierre Hallé & Christoph Draxler. 2020. Breathy voice and low-register: A case of trading relation in Shanghai Chinese tone perception? *Language and Speech* 63(3). 582–607. <https://doi.org/10.1177/0023830919873080>.

Kirby, James, D. Robert Ladd, **Jiayin Gao** & Zuzana Elliott. 2020. Elicitation context does not drive F0 lowering following voiced stops: Evidence from French and Italian. *The Journal of the Acoustical Society of America* 148(2). EL147–EL152. <https://doi.org/10.1121/10.0001698>.

Yun, Jihyeon, Janice Wing Sze Wong, Jeff Moore, Junya Iwakami, C. T. Justine Hui, **Jiayin Gao** & Takayuki Arai. 2020. Korean and Japanese listeners' perception of /ma/ produced by a mechanical vocal-tract model. *Acoustical Science and Technology* 41(4). 697–700. <https://doi.org/10.1250/ast.41.697>.

**Gao, Jiayin** & Takayuki Arai. 2019. Plosive (de-)voicing and f0 perturbations in Tokyo Japanese: Positional variation, cue enhancement, and contrast recovery. [Best Early Career Scholar's Article]. *Journal of Phonetics* 77. <https://doi.org/10.1016/j.wocn.2019.100932>.

**Gao, Jiayin** & Pierre Hallé. 2017. Phonetic and phonological properties of tones in Shanghai Chinese. *Cahiers de Linguistique Asie Orientale* 46(1). 1–31. <https://doi.org/10.1163/19606028-04601001>.

**Gao, Jiayin**. 2016. Sociolinguistic motivations in sound change: on-going loss of low tone breathy voice in Shanghai Chinese. *Papers in Historical Phonology* 1. 166–186. <https://doi.org/10.2218/pihph.1.2016.1698>.

Landron, Simon, Nikola Pailereau, Ahmad Nawafleh, Christelle Exare, Hirofumi Ando & **Jiayin Gao**. 2010. Le corpus PhoDiFLE : un corpus commun de français langue étrangère pour une étude phonétique des productions de locuteurs de langues maternelles plurielles. *Cahiers de Praxématique* 54-55. 73–86. <https://doi.org/10.4000/praxematique.1119>.

### EDITION

**Gao, Jiayin** & Maximilien Guérin. 2013. *Proceedings of the 16th Rencontres Jeunes Chercheurs in Linguistics: Models and modeling in language sciences*. <https://hal.archives-ouvertes.fr/RJC2013>.

### BOOK CHAPTER

Landron, Simon, **Jiayin Gao**, Yueh-Chin Chang & Yuan Tian. 2017. Les sinophones. In Sylvain Detey, Isabelle Racine, Yuji Kawaguchi & Julien Eychenne (Eds.) *La prononciation du français dans le monde : du natif à l'apprenant*, pp. 193-199. CLE-International. ISBN: 978-2-09-038241-9.

## CONFERENCE PROCEEDINGS

- Erickson, Donna, Sayoko Takano, Yongwei Li, **Jiayin Gao**, Shigeto Kawahara, Kerrie Obert, Kyoko Takahashi & Masato Akagi. 2021. Source and filter contributions to voice quality differences. In *Proceedings of the 12th International Seminar on Speech Production*. Virtually Providence, USA.
- Erickson, Donna, Jihyeon Yun, **Jiayin Gao** & Kerrie Obert. 2021. Interaction between phonation mode and pharyngeal narrowing: A pilot EGG study. In *Proceedings of the 12th International Seminar on Speech Production*. Virtually Providence, USA.
- Gao, Jiayin**, Jihyeon Yun & Takayuki Arai. 2019a. VOT and F0 cues in the perception of synthesized plosives by Japanese listeners. In *Proceedings of the 2019 Spring Meeting of the Acoustical Society of Japan*. Tokyo, Japan.
- Gao, Jiayin**, Jihyeon Yun & Takayuki Arai. 2019b. VOT-F0 coarticulation in Japanese: Production-biased or misparsing? In *Proceedings of the 19th International Congress of Phonetic Sciences*, 619.1–5. Melbourne, Australia.
- Gao, Jiayin** & Takayuki Arai. 2018a. Acoustic cues of the stop voicing contrast in modern Tokyo Japanese. In *Proceedings of the 2018 Spring Meeting of the Acoustical Society of Japan*. Tokyo, Japan.
- Gao, Jiayin** & Takayuki Arai. 2018b. F0 perturbation in a “pitch-accent” language. In *Proceedings of the 6th International Symposium on Tonal Aspects of Languages*, 13.1–5. Berlin, Germany.
- Gao, Jiayin** & Martine Mazaudon. 2017. Relative use of de-phonologized cues in perception of tones in Tamang (Nepal). In *Proceedings of 2017 Seoul International Conference on Speech Sciences*, 86–87. Seoul, South Korea.
- Hallé, Pierre, Tzu-chien Chen & **Jiayin Gao**. 2017. Discrimination of Mandarin and Minnan tones by French listeners vs. Taiwanese Mandarin-Minnan Bilinguals. In *Proceedings of 2017 Seoul International Conference on Speech Sciences*, 107–108. Seoul, South Korea.
- Gao, Jiayin** & Pierre Hallé. 2015. The role of voice quality in Shanghai tone perception. In *Proceedings of the 18th International Congress of Phonetic Sciences*, 448.1–5. Glasgow, Scotland, UK.
- Gao, Jiayin** & Pierre Hallé. 2013a. Are young male speakers losing Tone 3 breathiness in Shanghai Chinese? An acoustic and electroglottographic study. In *Proceedings of the 2nd International Conference on Phonetics of the Languages in China*, 163–166. Hong Kong, China.
- Gao, Jiayin** & Pierre Hallé. 2013b. Duration as a secondary cue for perception of voicing and tone in Shanghai Chinese. In *Proceedings of 14th Interspeech*, 3157–3161. Lyon, France.
- Gao, Jiayin** & Pierre Hallé. 2012. Caractérisation acoustique des obstruantes phonologiquement voisées du dialecte de Shanghai. In *Actes des 29es JEP-TALN-RECITAL*, 57–64. Grenoble, France.
- Georgeton, Laurianne, Nikola Pailereau, Simon Landron, **Jiayin Gao** & Takeki Kamiyama. 2012. Analyse formantique des voyelles orales du français en contexte isolé: à la recherche d’une référence pour les apprenants de FLE. In *Actes des 29es JEP-TALN-RECITAL*, 145–152. Grenoble, France.
- Gao, Jiayin**, Pierre Hallé, Kiyoshi Honda, Shinji Maeda & Martine Toda. 2011. Shanghai slack voice: acoustic and EPGG data. In *Proceedings of the 17th International Congress of Phonetic Science*, 719–722. Hong Kong, China.

## PEER-REVIEWED CONFERENCE ABSTRACTS

- Gao, Jiayin** & James Kirby. 2021. Perceptual equivalence between prevoicing and pitch: implications for sound change. The 4th Phonetics and Phonology in Europe conference. Virtually Barcelona, Spain.
- Gao, Jiayin**, Jihyeon Yun & Takayuki Arai. 2021. Domain-initial denasalized and oral stops in Korean: the

role of voice quality. The 4th Phonetics and Phonology in Europe conference. Virtually Barcelona, Spain.

Yun, Jihyeon, **Jiayin Gao**, Takayuki Arai & Cheoljae Seong. 2020. Comparison of Rhamonics to Noise Ratio of Korean Vowels. Korean Speech Society Fall Conference. Virtually Seoul, South Korea.

**Gao, Jiayin** & Takayuki Arai. 2019. Is French more “true voicing” than Japanese? Perception of plosive voicing in French vs. Japanese. New Sounds 2019, Tokyo, Japan.

Hallé, Pierre, **Jiayin Gao** & Jiacong Zhang. 2019. Vowel nasalisation and nasal context: French compared to Chinese. New Sounds 2019, Tokyo, Japan.

Mazaudon, Martine & **Jiayin Gao**. 2018a. A perception study of the cues to tone differentiation in Risiangku Tamang. 39th Annual Conference of Linguistic Society of Nepal. November 2018, Kathmandu, Nepal.

Mazaudon, Martine & **Jiayin Gao**. 2018b. Cue weighting after a tone-split in Tamang. A perception study of stop initial words. The 16th Conference on Laboratory Phonology. June 2018, Lisbon, Portugal.

**Gao, Jiayin** & Takayuki Arai. 2018a. Is Japanese a true voicing language? So much we know, yet so much to learn about [voice]. The 16th Conference on Laboratory Phonology. June 2018, Lisbon, Portugal.

**Gao, Jiayin** & Takayuki Arai. 2018b. Revisiting laryngeal features with a dynamic approach. 16èmes Rencontres du Réseau Français de Phonologie. June 2018, Paris, France.

**Gao, Jiayin** & Martine Mazaudon. 2017a. Differential cue perception in plosive onset words after a tone-split in Tamang (Tibeto-Burman, Nepal). 3rd Edinburgh Symposium on Historical Phonology. November 2017, Edinburgh, Scotland, UK.

**Gao, Jiayin** & Martine Mazaudon. 2017b. On the retention of an old feature in the Tamang dialect of Taglung. 4th Workshop on Sound Change. April 2017, Edinburgh, Scotland, UK.

**Gao, Jiayin** & Pierre Hallé. 2016. Prosodic organization and microprosodic effects in Shanghai Chinese. The 15th Conference on Laboratory Phonology, Ithaca, USA.

Hallé, Pierre & **Jiayin Gao**. 2016. Shanghai Chinese obstruent durations vary with voicing: A phonological or phonetic effect? The 15th Conference on Laboratory Phonology, Ithaca, USA.

Chen, Tzu-chien, **Jiayin Gao** & Pierre Hallé. 2016. The discrimination of Mandarin vs. Minnan tones by French vs. Taiwanese Mandarin-Minnan bilinguals. New Sounds 2016, Aarhus, Denmark.

**Gao, Jiayin**. 2015. Sociolinguistic motivations in sound change: loss of low tone breathy voice in Shanghai Chinese. The 2nd Edinburgh Symposium on Historical Phonology. December 2015, Edinburgh, Scotland, UK.

**Gao, Jiayin**. 2014. Production and perception of Yang tone breathiness in today’s Shanghai Chinese. 27èmes Journées de Linguistique d’Asie Orientale. June 2014, Paris, France.

#### INVITED TALKS AND OTHER PRESENTATIONS

(with James Kirby) Perceptual equivalence between prevoicing and pitch: implications for sound change. Seminar “New Observations in Speech and Hearing”. IPS, University of Munich, Virtually Munich. 26 May 2021.

Individual differences in cue integration in coarticulation, and how they may impact sound change. Séminaire de Recherche en Phonétique et Phonologie. LPP, Université Sorbonne Nouvelle, Virtually Paris. 22 January 2021.



- (with James Kirby) When is onset f0 perturbation enhanced? And what is enhancement after all?. Phonetics and Phonology Workshop (P-Workshop). University of Edinburgh, Virtually Edinburgh. 30 October 2020.
- Laryngeal features in Tokyo Japanese as illustrated by its F0 perturbation patterns. Séminaire de Recherche en Phonétique et Phonologie. LPP, Université Sorbonne Nouvelle, Paris. June 2018.
- (with Martine Mazaudon) Tons et traits pertinents : perspective diachronique. Atelier de Phonologie. Université Paris 8, Paris. June 2017.
- Multidimensional nature of tones: evidence from Shanghainese and Tamang, two distant Sino-Tibetan languages. Seminar “New Observations in Speech and Hearing”. IPS, University of Munich, Munich. February 2017.
- (with Martine Mazaudon) Tons en tamang: variation synchronique et évolution diachronique. Séminaire «Problèmes d’Analyse et de Comparaison des Langues». LACITO, Université Sorbonne Nouvelle, Paris. April 2016.
- Recherches tonales sur le tamang. *Les Carnets du LACITO*. [lacito.hypotheses.org/332](http://lacito.hypotheses.org/332). 5 January 2016.
- (with Martine Mazaudon) Tamang tone and orthography. Seminar with Tamang scholars and students. Kathmandu, Nepal. November 2015.
- (with T. Kamiyama, L. Georgeton, N. Paillereau, A. Brkan) Corpus PhoDiFle: les voyelles orales isolées du français prononcées par des apprenants bosniaques, japonais, shanghaiens et tchèques. Journées IPFC (InterPhonologie du français contemporain) 2012. Paris. December 2012.
- Redondance et complémentarité des caractéristiques segmentales et tonales du shanghaien: données de production et de perception. Séminaire des doctorants du LLACAN (INALCO), Paris. April 2012.
- Shanghai slack voice: acoustic characteristics and glottal settings. Department of Linguistics, National Tsinghua University, Hsinchu, Taiwan. August 2011.