

## ACADEMIC EMPLOYMENT

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- Post-doc Research Assistant** October 2019–current  
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 Fo 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, 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, Mention <i>Très bien</i></b> (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 Jacqueline Vaissière, Prof Annie Rialland, Prof Juan Segui	
<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> (2015): option Physics	

## TEACHING AND SUPERVISION

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- **Involvement in supervision**  
William Peralta (U. Edinburgh), Dr Jihyeon Yun (Sophia University)
- **Ph.D. student workshop**, Langues et Civilisations à Tradition Orale  
Phonetics and doing analysis using Praat January 2017
- **Undergraduate tutorials**, 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 linguistic research (39 hours), Workshop of key notions (35 hours), Q & A for B1 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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- Travel bursary for ICPhS 2019, International Phonetic Association 2019
- JSPS Grant-in-Aid for Scientific Research [17F17006](#) (Co.I.) 2017–2019
- **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, Shanghai International Studies University 2009
- First-Grade scholarship for all university terms, Shanghai International Studies University 2005–2008

## 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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- **Journal reviewer** 2017–2020  
Laboratory Phonology, PLOS ONE, The Journal of the Acoustical Society of America, Journal of the International Phonetic Association, Linguistics Vanguard, Language & Linguistics 語言暨語言學, 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:** X<sub>Y</sub>TEX, MS 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
- **Manually coded Japanese (signed Japanese):** basic
- **Nepali:** reading of devanagari script provided enough time, good theoretical understanding of phonology and syntax
- **Portuguese:** (academic) reading, good theoretical understanding of phonology and syntax

## NON-VERBAL MOTOR SKILLS (AND BEYOND)

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- **Scottish Country Dancing:** Demonstration/competition level 2015–pre-COVID  
(greatest non-academic passion)  
– Paris Book of Scottish Country Dance, vol. 1 (RSCDS Paris Branch)  
– みんなでおどろう Let's dance together, vol. 90 (National Folk Dance Federation of Japan)
- **Scottish Highland Dancing** 2017–current
- **Scottish Ladies' Step Dancing** COVID–current

## PUBLICATIONS

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### IN PREPARATION/SUBMITTED

- Gao, Jiayin & James Kirby. (in prep.). (Non-)imitation of altered cue weights: reduced primary cue versus enhanced secondary cue.
- Gao, Jiayin & Martine Mazaudon. (submitted). 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*.
- Gao, Jiayin, Jihyeon Yun & Takayuki Arai. (in revision). Korean laryngeal contrast revisited: an electroglottographic study on denasalized and oral stops. *Laboratory Phonology*.

### JOURNAL ARTICLES

- 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 Fo 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 fo perturbations in Tokyo Japanese: Positional variation, cue enhancement, and contrast recovery. *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. Vers la construction d'un corpus commun de français langue étrangère. *Cahiers de Praxématique* 54-55. 73–86.

### 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

- Gao, Jiayin, Jihyeon Yun & Takayuki Arai. 2019a. VOT and Fo cues in the perception of synthesized plosives by Japanese listeners. In *Proceedings of the 2019 Spring Meeting of the Acoustical Society of Japan*. Tokyo.
- Gao, Jiayin, Jihyeon Yun & Takayuki Arai. 2019b. VOT-Fo coarticulation in Japanese: Production-biased or misparsing? In *Proceedings of the 19th International Congress of Phonetic Sciences*, 619.1–5. Melbourne.

- 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.
- Gao, Jiayin & Takayuki Arai. 2018b. Fo perturbation in a “pitch-accent” language. In *Proceedings of the 6th International Symposium on Tonal Aspects of Languages*, 13.1–5. Berlin.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

#### CONFERENCE ABSTRACTS

- Donna Erickson, Sayoko Takano, Yongwei Li, Jiayin Gao, Shigeto Kawahara, Kerrie Obert, Kyoko Takahashi & Masato Akagi. 2020. Source and filter contributions to voice quality differences. 12th International Seminar on Speech Production.
- 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. 2018. A perception study of the cues to tone differentiation in Risiangku Tamang. 39th Annual Conference of Linguistic Society of Nepal. November 2018, Kathmandu, Nepal.
- Gao, Jiayin & Takayuki Arai. 2018. Revisiting laryngeal features with a dynamic approach. 16èmes Rencontres du Réseau Français de Phonologie. June 2018, Paris, France.
- Gao, Jiayin & Takayuki Arai. 2018. 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.
- Mazaudon, Mazaudon & Jiayin Gao. 2018. 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 & Martine Mazaudon. 2017. 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, UK.
- Gao, Jiayin & Martine Mazaudon. 2017. On the retention of an old feature in the Tamang dialect of Taglung. 4th Workshop on Sound Change. April 2017, Edinburgh, 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, 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.
- Gao, Jiayin, Laurianne Georgeton, Takeki Kamiyama & Nikola Paillereau 2013. Etude inter-langues sur la production des voyelles focales et des voyelles moyennes en français langue étrangère (FLE). PPLC (Phonetics, phonology and languages in contact) Conference 2013, August 2013, Paris, France.
- Kamiyama, Takeki, Laurianne Georgeton, Nikola Paillereau, Altijana Brkan & Jiayin Gao. 2012. Corpus PhoDiFle: les voyelles orales isolées du français prononcées par des apprenants bosniaques, japonais, shanghaiens et tchèques. Journées IPFC (InterPhonologie du français contemporain) 2012, December 2012, Paris, France.

#### OTHER PRESENTATIONS, INVITED TALKS, BLOGS

- (with James Kirby.) When is onset fo perturbation enhanced? And what is enhancement after all?. Phonetics and Phonology Workshop (P-Workshop). University of Edinburgh. 30 October 2020.
- Laryngeal features in Tokyo Japanese as illustrated by its Fo perturbation patterns. Séminaire de Recherche en Phonétique et Phonologie. LPP, Université Sorbonne Nouvelle. June 2018.
- (with Martine Mazaudon.) Tons et traits pertinents : perspective diachronique. Atelier de Phonologie. Université Paris 8. 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. 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. 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.
- Redondance et complémentarité des caractéristiques segmentales et tonales du shanghaien: données de production et de perception. Séminaire des doctorants du LLACAN (INALCO). April 2012.
- Shanghai slack voice: acoustic characteristics and glottal settings. Department of Linguistics, National Tsinghua University, Taiwan. August 2011.