

# SIREEMAS MASPONG

Ludwig-Maximilians-Universität München

Institut für Phonetik und Sprachverarbeitung (IPS), Spoken Language Processing Group

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## ACADEMIC APPOINTMENTS

- 2023 - **Postdoctoral researcher** – Spoken Language Processing Group,  
Institute for Phonetics and Speech Processing (IPS),  
Ludwig Maximilians Universität München
- 2025 **Invited researcher** – Department of Linguistics, Chulalongkorn University

## EDUCATIONAL BACKGROUND

- 2016 - 2023 **Ph.D. (Linguistics)** – Cornell University  
Dissertation: Synchrony and diachrony of vowel quality difference across register in Mon-Khmer languages  
Chairs: John Whitman & Sam Tilsen
- 2014 - 2016 **M.A. (Linguistics)** – Chulalongkorn University  
Thesis: Vowel length contrasts in the language of Sukhothai period (in Thai)  
Chair: Pittayawat Pittayaporn
- 2010 - 2014 **B.A. (Thai – Honors Program)** – Chulalongkorn University  
Honors Thesis: Historical Studies of Synaesthetic Expressions in Thai (in Thai)

## ACADEMIC INTERESTS

Laboratory Phonology & Phonetics

Historical Linguistics

Southeast Asian Linguistics

## PUBLICATIONS

### Journal Articles

- 2025 **Maspong, S.**, McCormick, P. and Kirby, J. "Voice register in Mon: experiments in production and perception" *Phonetica*. DOI: 10.1515/phon-2024-0047
- 2024 Burroni, F., **Maspong, S.**, Pittayaporn, P. & Kochaiyaphum, P. An exploratory investigation of the interactions between syllabic prominence, initial geminates, and phrasal boundaries in Pattani Malay. *Journal of International Phonetics Association* 54(1), 264-293. DOI: 10.1017/S0025100323000233
- 2024 **Maspong, S.** Chronology of registrogenesis in Khmer: Analyses of poetry and inscriptions. *Journal of the Southeast Asian Linguistics* 17(1), 46-62. DOI: 10524/52522
- 2022 **Maspong, S.** Khmer onset voicing at the end of the 13<sup>th</sup> century: Zhenla Fengtu Ji revisited. *Cahier de Linguistique Asie Orientale* 51(2), 175-208. DOI: 10.1163/19606028-bja10025

- 2019 **Maspong, S.** & Pittayaporn, P. Length contrast of high vowels in the Thai language of the Sukhothai period: What do the inscriptions say? *Cahier de Linguistique Asie Orientale* 48(1), 30-60. DOI: 10.1163/19606028-04801001
- 2016 **Maspong, S.** Vowel length contrast of (e) (ɛ) (o) and (ɔ) in the Thai language of Sukhothai period. *Journal of Letter* 45(2), 59-92. (in Thai)
- 2015 Pittayaporn, P., Pothipath, V., Jatuthasri, T., Sanah, N., Methithammawat, P., **Maspong, S.**, Iamdanush, J., & Laimanoo, P. Survey and selection of texts for Thai National Historical Corpus. Thai. *Journal of Thai Language and Literature [Special issue]* 32(2), 1-41. (in Thai)
- 2014 **Maspong, S.** A historical study of synaesthetic expressions. *Journal of Thai Language and Literature [Special issue]* 31(1), 146-173. (in Thai)

### Book Chapters

- 2024 Burroni, F. & **Maspong, S.** Re-examining initial geminates: Typology, evolutionary phonology, and phonetics. In B. Evans, M. K. Gallego, & L. Miceli (Eds.), *Current Issues in Linguistic Theory* (Vol. 367, pp. 109–145). John Benjamins Publishing Company. DOI: 10.1075/cilt.367.05bur

### Conference Proceedings

- 2024 Mam, S., Burroni, F., **Maspong, S.** Towards a token-by-token whole-spectrum approach to sound change using deep learning: A case study of Khmer coda palatalization. *Proceedings of the 38<sup>th</sup> Pacific Asia Conference in Language, Information and Computation*.
- 2024 **Maspong, S.**, Burroni, F., Sukanchanon, T., Pornpottanamas, W., Pittayaporn, P. Deep learning to shed light on tones of an endangered language: A case study of Moklens. *Proceedings of the 3<sup>rd</sup> Workshop on NLP Applications to Field Linguistics*.
- 2024 **Maspong, S.**, Burroni, F., Kirby, J. CF0 effect and articulatory strength of geminate consonants. *Proceedings of Speech Prosody 2024*. DOI: 10.21437/SpeechProsody.2024-68
- 2024 Kirby, J., Puggaard-Rode, R., Burroni, F., **Maspong, S.** Effects of coda consonants on preceding vowel F0 in Eastern Khmu. *Proceedings of Speech Prosody 2024*. DOI: 10.21437/SpeechProsody.2024-66
- 2024 **Maspong, S.** & Burroni, F. Are long and short vowels articulatorily different? Spatial and durational effects of vowel length in Thai. *Proceedings of the 13<sup>th</sup> International Seminar on Speech Production*. DOI: 10.21437/issp.2024-42
- 2024 Burroni, F., **Maspong, S.**, Benker, N., Hoole, P., Kirby, J. Spatiotemporal Features of Bilabial Geminate and Singleton Consonants in Italian. *Proceedings of the 13<sup>th</sup> International Seminar on Speech Production*. DOI: 10.21437/issp.2024-42
- 2024 Pornpottanamas, W., **Maspong, S.**, Pittayaporn, P. A Preliminary Investigation of the Phonetic Characteristics of Moklen Tones. *Proceedings of the 2<sup>nd</sup> International Conference on Tone and Intonation*. DOI: 10.21437/TAI.2023-13
- 2023 **Maspong, S.** Voice quality is not an obligatory stage in tonogenesis: A case study of Eastern Khmu. *Proceedings of the 20<sup>th</sup> International Congress of Phonetic Science*.
- 2022 Burroni, F., Lau-Preechathammarat, R. & **Maspong, S.** Unifying initial geminates and fortis consonants via laryngeal specification: Three case studies from Dunan, Pattani Malay, and Salentino. *Proceedings of the Annual Meeting on Phonology 2021*. DOI: 10.3765/amp.v9i0.5200

- 2021 **Maspong, S.** & Burrioni, F. Functional Load modulates speech production, but not speech perception: Evidence from Thai vowel length. *Proceedings of the 12<sup>th</sup> International Seminar on Speech Production*.
- 2020 Burrioni, F., **Maspong, S.**, Pittayaporn, P. & Kochaiyaphum, P. A new look at Pattani Malay Initial Geminate: a statistical and machine learning approach. *Proceedings of the 34<sup>th</sup> Pacific Asia Conference in Language, Information and Computation*.
- 2018 **Maspong, S.** Length contrast in the Sukhothai vowel system. In Pittayaporn, P. & Jitwiriyant, S. & Saisuwan, P. & Tejarajanya, B. (eds.), *Papers from the Chulalongkorn International Student Symposium on Southeast Asian Linguistics 2017: JSEALS Special Publication No. 2*, 78-89. Honolulu: University of Hawai'i Press.
- 2016 Ployplai, D. & **Maspong, S.** The Relationship between language and concept in the musical numbers of 'Si Phan Din the Musical' and Thai contemporary socio-cultural context. In K. Raiyawong & T. Dechapharittikul (Eds.), *Hope and Imagination in Humanities*. (in Thai)
- 2014 **Maspong, S.** Tracing back the life of a Thai invective: a historical study of /ʔâ:j/. In K. Amratisha (Ed.), *Wichayamālā: Selected Papers on Thai Language and Literature*. Bangkok: Department of Thai, Faculty of Arts, Chulalongkorn University, 1-44. (in Thai)

#### INVITED TALKS

- 2025 **Maspong, S.** Articulatory characteristics of vowel length: Intrinsic vs extrinsic accounts. Invited talk at Laboratoire de Phonétique et Phonologie, CNRS/Université Sorbonne Nouvelle, Paris, France. 7 March 2025.

#### CONFERENCE PRESENTATIONS

- 2025 Pittayaporn, P., **Maspong, S.**, Mam, S. Vowel mergers and register restructuring in Chanthaburi Khmer. Poster presented at the 3<sup>rd</sup> International Conference on Tone and Intonation (TAI), Herrsching, Germany.
- 2025 Mam, S., Pittayaporn, P., **Maspong, S.** Phonologization of pitch in Phnom Penh and Standard Khmer for cluster and disyllabic words. Poster presented at the 3<sup>rd</sup> International Conference on Tone and Intonation (TAI), Herrsching, Germany.
- 2025 **Maspong, S.**, Sukanchanon, T., Burrioni, F. Vowel-intrinsic F0 interacts with tones: Evidence from a Thai speech corpus. Poster presented at the 3<sup>rd</sup> International Conference on Tone and Intonation (TAI), Herrsching, Germany.
- 2024 Mam, S., Burrioni, F., **Maspong, S.** Towards a token-by-token whole-spectrum approach to sound change using deep learning: A case study of Khmer coda palatalization. Paper presented at the 38<sup>th</sup> Pacific Asia Conference in Language, Information and Computation (PACLIC), Tokyo, Japan.
- 2024 **Maspong, S.**, Burrioni, F., Sukanchanon, T., Pornpottanamas, W., Pittayaporn, P. *Deep learning to shed light on tones of an endangered language: A case study of Moklens*. Paper presented at the 3<sup>rd</sup> Workshop on NLP Applications to Field Linguistics (Field Matters), Bangkok, Thailand.

- 2024 **Maspong, S.**, Burroni, F., Kirby, J. *CF0 effect and articulatory strength of geminate consonants*. Paper presented at Speech Prosody 2024, Leiden, the Netherlands.
- 2024 Kirby, J., Puggaard-Rode, R., Burroni, F., **Maspong, S.** *Effects of coda consonants on preceding vowel F0 in Eastern Khmu*. Paper presented at Speech Prosody 2024, Leiden, the Netherlands.
- 2024 **Maspong, S.** & Burroni, F. *Are long and short vowels articulatorily different? Spatial and durational effects of vowel length in Thai*. Poster presented at the 13<sup>th</sup> International Seminar on Speech Production (ISSP), Autrans, France.
- 2024 Burroni, F., **Maspong, S.**, Benker, N., Hoole, P., Kirby, J. *Spatiotemporal Features of Bilabial Geminate and Singleton Consonants in Italian*. Poster presented at the 13<sup>th</sup> International Seminar on Speech Production (ISSP), Autrans, France.
- 2023 Pornpottanamas, W., **Maspong, S.**, Pittayaporn, P. *A Preliminary Investigation of the Phonetic Characteristics of Moklen Tones*. Paper presented at the 2<sup>nd</sup> International Conference on Tone and Intonation (TAI), Singapore.
- 2023 **Maspong, S.** *Voice quality is not an obligatory stage in tonogenesis: A case study of Eastern Khmu*. Poster presented at the 20<sup>rd</sup> International Congress of Phonetic Science (ICPhS), Prague, Czech Republic.
- 2023 Burroni, F., **Maspong, S.** *Geminates are not just longer singletons: Evidence from Italian articulatory data*. Paper presented at the 53<sup>rd</sup> Linguistic Symposium on Romance Languages, Paris, France.
- 2023 **Maspong, S.** *Chronology of registrogenesis in Khmer: An analysis of poetry and inscriptions*. Paper presented at the 32<sup>nd</sup> Annual Meeting of the Southeast Asian Linguistics Society (SEALS), Chiang Mai, Thailand. (virtual)
- 2022 **Maspong, S.** *The temporal unfolding of phonologized diphthongs and register in two dialects of Chanthaburi Khmer*. Poster presented at LabPhon 18. (virtual)
- 2021 **Maspong, S.** *Khmer onset voicing at the end of the 13<sup>th</sup> century: Zhenla Fengtu Ji revisited*. Paper presented at the 5<sup>th</sup> Edinburgh Symposium on Historical Phonology, Edinburgh, UK. (virtual)
- 2021 **Maspong, S.** *The temporal unfolding of register reveals temporally bound mechanisms at play: A case study of Western Khmer*. Poster presented at the 181<sup>st</sup> Meeting of the Acoustical Society of America (ASA), Seattle, WA, USA.
- 2021 Burroni, F., Lau-Preechathammarach, R., **Maspong, S.** *Unifying Initial Geminates and Fortis Stops via Laryngeal Specification*. Paper presented at the Annual Meeting on Phonology (AMP), Toronto, Canada. (virtual)
- 2020 **Maspong, S.**, Burroni, F. *Functional Load modulates speech production, but not speech perception: Evidence from Thai vowel length*. Poster presented at the 12<sup>th</sup> International Seminar on Speech Production (ISSP). Providence, RI, USA. (virtual)
- 2020 Burroni, F., **Maspong, S.**, Pittayaporn, P. & Kochaiyaphum, P. *A new look at Pattani Malay Initial Geminates: a statistical and machine learning approach*. Paper presented at the 34<sup>th</sup> Pacific Asia Conference in Language, Information and Computation (PACLIC), Hanoi, Vietnam. (virtual)
- 2020 **Maspong, S.**, Burroni, F., Kochaiyaphum, P. & Pittayaporn, P. *Interaction of initial geminates and stress: a case study of Pattani Malay*. Poster presented at LabPhon 17, Vancouver, Canada. (virtual)

- 2019 Burroni, F. & **Maspong, S.** *Contrast Emergence, Preservation, and Loss: A case study of initial geminates*. Paper presented at the International Conference in Historical Linguistics (ICHL), Canberra, Australia.
- 2018 **Maspong, S.** *Production and Perception of Marginal Vowel Length Contrast in Thai*. Paper presented at the National Conference “the Science of Languages”, Bangkok, Thailand.
- 2018 Pittayaporn, P., **Maspong, S.**, Tangsiriwattanakul, S. & Sikkharit, Y. *The genetic relationship between Sukhothai and Ayutthaya*. Paper presented at the 28<sup>th</sup> Annual Meeting of Southeast Asian Linguistics Society (SEALS), Kaohsiung, Taiwan.
- 2018 **Maspong, S.** *Production and perception of marginal contrast: Length contrast in Thai mid vowels*. Paper presented at the 28<sup>th</sup> Annual Meeting of Southeast Asian Linguistics Society (SEALS), Kaohsiung, Taiwan.
- 2017 **Maspong, S.** *Length contrast in the Sukhothai vowel system*. Paper presented at Chulalongkorn International Student Symposium on Southeast Asian Linguistics (CU-SSSEAL), Bangkok, Thailand.
- 2015 **Maspong, S.** *Length contrasts of high vowels in the Thai language of Sukhothai Period: What do inscriptions say?*. Poster presented at the 25<sup>th</sup> Annual Meeting of the Southeast Asian Linguistics Society (SEALS), Chiang Mai, Thailand.
- 2014 Ployplai, D. & **Maspong, S.** *The Relationship between language and concept in the musical numbers of ‘Si Phan Din the Musical’ and Thai contemporary socio-cultural context*. Paper presented at the 7<sup>th</sup> Humanities Research Forum in Thailand, Nakhon Si Thammarat, Thailand.
- 2013 **Maspong, S.** *Tracing back the life of a Thai invective: from /pî:ʔâ:/ to /ʔâjpî:bâ:/*. Paper presented at the 1<sup>st</sup> Arts Undergraduate Humanities Symposium, Bangkok, Thailand.

## GRANTS & SCHOLARSHIPS

- 2021 - 2022 **Sage Fellowship**, Graduate School, Cornell University
- 2018 **Outstanding Master’s Thesis Award**, Graduate School, Chulalongkorn University
- 2017 - 2020 **Graduate School Conference Travel Grant**, Graduate School, Cornell University
- 2017, 2020 **Einaudi Center International Research Travel Grant**, Mario Einaudi Center for International Studies, Cornell University
- 2015 - 2022 **Ananda Mahidol Foundation Scholarship for Post-Graduate Degree**, Ananda Mahidol Foundation
- 2014 - 2016 **H.M. the King Bhumibol Adulyadej’s 72<sup>nd</sup> Birthday Anniversary Scholarship**, Chulalongkorn University
- 2011 - 2014 **Honors Program Scholarship**, Faculty of Arts, Chulalongkorn University
- 2010 - 2014 **Government Saving Bank Corporate Social Responsibility Foundation’s Scholarship**, Government Saving Bank Corporate Social Responsibility Foundation, Thailand
- 2013 **Phra Varavedayabhisith’s Scholarship**, Faculty of Arts, Chulalongkorn University
- 2011 **Professor Rong Sayamanond’s Scholarship**, Faculty of Arts, Chulalongkorn University

## RESEARCH ASSISTANTSHIPS

- 2017                    **Transphonologization of registers to tones**  
Fieldwork assistant (Supervisors: Marc Brunelle, James Kirby)
- 2015 - 2016           **Change of vowel length: signification to present-day Thai writing system**  
Research assistant (Supervisor: Pittayawat Pittayaporn)
- 2013 - 2016           **Thailand National Historical Corpus**  
Research assistant (Supervisor: Pittayawat Pittayaporn)

## TEACHING EXPERIENCES

- 2/2023                **2209705 Seminar in Phonetics and Phonology**  
*Topic: Phonetics and Phonology of Southeast Asian Languages*  
Chulalongkorn University, Thailand  
Instructor
- 2/2021, 22, 24      **2209683 Quantitative Methods in the Study of Language**  
Chulalongkorn University, Thailand  
Instructor
- 2/2015                **2209161 Introduction to Language**  
Chulalongkorn University, Thailand  
Teaching assistant – led weekly discussions sections, graded homework, and helped preparing materials for classes
- 2/2014                **2209375 Language in ASEAN Plus 3**  
Chulalongkorn University, Thailand  
Teaching assistant – graded homework and helped preparing materials for classes

## FIELDWORK EXPERIENCES

- 2023, 2024          **Mon** (Samut Sakorn, Thailand)
- 2022, 2023          **Eastern Khmu** (Uthai Thani, Thailand)
- 2021                  **Chanthaburi Khmer** (Chanthaburi, Thailand)
- 2020                  **Standard Khmer** (Nakorn Pathom, Thailand)
- 2017                  **Northern Khmu** (Nan, Thailand)
- 2015                  **Lao Krang** (Uthai Thani, Thailand)

## SKILLS

### Languages

Thai (Native); English (Proficient); Khmer (Advanced); Italian (Intermediate); French, German (Basic Reading Skill)

### Programming languages

MATLAB, R (Proficient); Python, Java, Praat Scripting, (Familiar); HTML, E-Prime (Some Experience)

### Computational skills

Praat, Microsoft Office (Proficient); LaTeX (Familiar)

### Others

IPA transcription