



Marnix Van Soom

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Born: January 25, 1992—Bornem, Belgium
Nationality: Belgian

Current position

PHD Candidate at Artifical Intelligence Lab, Vrije Universiteit Brussel
Topic: *Bayesian Nonparametric Glottal Inverse Filtering*

Areas of specialisation

Machine Learning; Bayesian Inference; Signal Processing; Gaussian Processes

Education

- (coming) 2025 PHD in Computer Science, Vrije Universiteit Brussel
2017 MSc in Physics and Astronomy Ghent University

Publications & talks

TALKS

- 2022 Marnix Van Soom and Katie Mudd. The Effect of Network Structure on Lexical Variability in Sign Language Communities. JCOLE 2022, Teikyo University, Japan
2021 Marnix Van Soom. A Weakly Informative Prior for Resonance Frequencies. MAXENT 2021, TU Graz, Austria [[Plenary talk](#)]
2019 Marnix Van Soom. A New Approach to the Formant Measuring Problem. MAXENT 2019, Max Planck Institute of Plasma Physics, Germany [[Plenary talk](#)]

PUBLICATIONS

- 2022 Marnix Van Soom and Bart De Boer. Softly Constrained Agent-Based Models. In *Joint Conference on Language Evolution*, Kanazawa, Japan, 2022
2021 Marnix Van Soom and Bart de Boer. A Weakly Informative Prior for Resonance Frequencies. *Physical Sciences Forum*, 3(1):2, 2021
2020 Marnix Van Soom and Bart de Boer. Detrending the Waveforms of Steady-State Vowels. *Entropy*, 22(3):331, March 2020 [[Invited paper](#)]
2019 Marnix Van Soom and Bart de Boer. A New Approach to the Formant Measuring Problem. *Proceedings*, 33(1):29, 2019
2019 Marnix Van Soom, Milan van den Heuvel, Jan Ryckebusch, and Koen Schoors. Loan maturity aggregation in interbank lending networks obscures mesoscale structure and economic functions. *Scientific Reports*, 9(1):1–14, August 2019