STEVEN VAN KUYK

PERSONAL DETAILS

Email:	steven.jvk@gmail.com
Date of birth:	22/02/1993
Address:	Cupertino, USA
Citizenship:	New Zealand, Dutch
Website:	https://stevenvankuyk.com

WORK EXPERIENCE

SOFTWARE ENGINEER, APPLE INC., CALIFORNIA, USA — 12/2019–PRESENT

Developed, integrated, and maintained signal processing and machine learning algorithms for audio and telephony.

SOFTWARE ENGINEER, APPLE INC., LONDON, UK — 10/2018–12/2019

VOLUNTEER ACADEMIC PEER-REVIEWER — 2017–2018

Reviewed academic manuscripts for IEEE Transactions on Audio, Speech, and Language Processing, and Acta Acoustica United with Acustica.

INTERNSHIP, APPLE INC., CALIFORNIA, USA — 9/2017-12/2017

Developed a signal processing algorithm for telephony and implemented a prototype on shipping hardware.

TUTOR, VICTORIA UNIVERSITY OF WELLINGTON, WELLINGTON, NZ — 2013-2016

Prepared and facilitated weekly tutorials and laboratories. Marked tests, assignments and lab reports.

INTERNSHIP, FISHER & PAYKEL HEALTHCARE, AUCKLAND, NZ — 11/2014–3/2015

Investigated the robustness of machine learning algorithms in order to specify hardware requirements for the company's latest medical device (a CPAP machine).

EDUCATION

VICTORIA UNIVERSITY OF WELLINGTON, NEW ZEALAND — PHD, 2015-2018

Thesis title:	Speech communication from an information theoretical perspective
Supervisors:	Professor Bastiaan Kleijn, Dr. Richard Hendriks
Applications:	Telephony and hearing-aids

VICTORIA UNIVERSITY OF WELLINGTON, NEW ZEALAND — BEHONS, 2011-2014

Bachelor of Engineering majoring in Electronic & Computer Systems.
Graduated with first-class honours and a GPA of 8.5/9.0 (A to A+ average).

PUBLICATIONS

A. Kolchinsky; B. D. Tracey; S. Van Kuyk; "Caveats for information bottleneck in deterministic scenarios", ICLR, 2019.

S. Van Kuyk; W. B. Kleijn; R. C. Hendriks; "An instrumental intelligibility metric based on information theory," IEEE Signal Processing Letters, 2018.

S. Van Kuyk; W. B. Kleijn; R. C. Hendriks; "An evaluation of intrusive instrumental intelligibility metrics," IEEE Transactions of Audio, Speech, and Language Processing, 2018.

S. Van Kuyk; W. B. Kleijn; R. C. Hendriks; "On the information rate of speech communication," ICASSP, 2017.

S. Van Kuyk; W. B. Kleijn; R. C. Hendriks; "An intelligibility metric based on a simple model of speech communication," IWAENC, 2016 (best paper award).

TECHNICAL SKILLS

Algorithm development, signal processing, machine learning, audio engineering, telecommunications, research, academic writing.

PROGRAMMING TOOLS
Python, TensorFlow, C++, MATLAB, Java, git.

AWARDS, SCHOLARSHIPS, & GRANTS

Victoria Doctoral Submission Scholarship (2018)
Victoria Faculty Strategic Research Grant (2017)
Best paper award at the International Workshop on Acoustic Signal Enhancement (2016)
Victoria Faculty Strategic Research Grant (2016)
Victoria Doctoral Scholarship (2016)
Victoria Masters by Thesis Scholarship (2015)
Included on the Dean's List for academic excellence (2014)
Included on the Dean's List for academic excellence (2013)
Victoria Summer Research Scholarship (2013)
Victoria Excellence Scholarship (2013)
Victoria Summer Research Scholarship (2012)
Included on the Dean's List for academic excellence (2012)
Included on the Dean's List for academic excellence (2011)
Victoria Excellence Scholarship (2011)

PROFESSIONAL REFEREES

Professor Bastiaan Kleijn   bastiaan.kleijn@ecs.vuw.ac.nz , +64 4 463 6613