



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **QINYU XIE**

Education and training

Dates	09/2019 to present (PhD candidate)
Principal subjects	Signal and Information Processing
Name and type of organisation	University of Chinese Academy of Sciences
Dates	09/2015 - 06/2019
Title of qualification awarded	Bachelor's degree (Outstanding Undergraduate Student Award of Sichuan province, 1%)
Principal subjects	Communication Engineering
Name and type of organisation	University of Electronic Science and Technology of China
Dates	01/2018 - 05/2018 (Exchange student)
Principal subjects	Electrical Engineering
Name and type of organisation	University of California, Berkeley, USA

Personal skills and competences

Other language(s) **English (TOEFL:98, GRE: 322)**

Self-assessment

European level (*)

Language

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	B2	C1

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences Extroverted and sunny, good at communication and willing to cooperate

Organisational skills and competences Served as a commissary in charge of studies for many times since childhood

Technical skills and competences

RESEARCH

Radar waveform design for better detection performance	01/2020 to present
• Propose waveform models	
• Use optimization methods to obtain optimal radar waveforms	
Photonic-assisted synthetic aperture radar signal processing	01/2019 - 01/2020
• Use the Range-Doppler algorithm for imaging	
• Compensate motion errors	
Microwave photonic Ising machine for radar waveform design	05/2022 to present
• Build the optimization problem and convert it to an Ising model	

Computer skills and competences Learned data structure, C language, and MATLAB

Other skills and competences	<p>Mathematical Modeling</p> <ul style="list-style-type: none"> • Meritorious Winner in Interdisciplinary Contest In Modeling of 2017 • First prize in the National Undergraduate Student Mathematical Contest in Modeling of Sichuan Province <p>English and Sports Competition</p> <ul style="list-style-type: none"> • First prize in National Spoken English Competition; Third prize in Beijing graduate student English Speech Contest • Second prize in women's 800-meter race at the school's sports meeting
Driving licence	Hold a C2 driving licence.
Additional information	<p>PUBLICATIONS (as the first author)</p> <ul style="list-style-type: none"> • A Two-Step Optimization Framework for Low Sidelobe NLFM Waveform Using Fourier Series[J]. IEEE Geoscience and Remote Sensing Letters, 2022, 19: 1-5. • Low Sidelobe Quasi-Orthogonal NLFM Waveforms With Reciprocating Frequency Modulation[J]. IEEE Geoscience and Remote Sensing Letters, 2022, 19: 1-5.