杨哲乙 (YANG Zheyi)

Gender: Male Ethnicity: Han Nationality: Chinese

Work Address: 828 Boulevard des Maréchaux, Palaiseau, 91120, France

Tel: +33 06 60 65 10 97 Email: zheyi.yang@polytechnique.edu Homepage: tapudodo.github.io

Birth place and date: Haikou, Hainan Province, China, 17 July 1995



Ph.D. Student in applied mathematics at ENSTA Paris **Apply for Post-Doc position**

	Apply for Post-Doc position
Education	
10.2020-12.2023	Ph.D. in applied mathematics at ENSTA Paris
(Expected)	Research field: diffusion MRI, Bloch Torrey equation, numerical simulation, estimation method
(=,	Thesis title: Numerical methods to estimate brain micro-structure from diffusion MRI data.
	Coursework: Calculus of variations, Transport optimal, Parallel computing, Numerical technologies and algorithms
	for boundary element method, Introduction to medical imaging
	Advisor: Dr. Jing-Rebecca LI
09.2017-07.2020	,
	, ,
	Major: Electromagnetism and microwave engineering GPA: 82/100 Research field: Microstrip filter design, Dielectric resonator antenna design, plan wave generator optimization
	(complex value optimization)
	Thesis title: Research and Design of Wideband Multi-Beam Circular Polarized Dielectric Resonant Antenna Array
09.2016-02.2017	·
	Major: Electric and electronic engineering. China Scholarship Council Scholarship (CSC)
09.2013-07.2017	
07.2015 07.2017	Major: Mathematics and applied mathematics GPA: 83/100
Publication and	·
2023.08	
2023.08	Journal article, IEEE Transactions on Medical Imaging (Under review) Title: SpinDoctor-IVIM: An in-silico imaging framework for intravoxel incoherent motion MRI (2 nd author)
2023.08	Journal article, Medical Image Analysis (Under review)
	Title: A simulation-driven supervised learning framework to estimate brain-microstructure using diffusion MRI (2 nd author)
2023.08	Journal article, Physics in Medicine and Biology
	Title: Incorporating interface permeability into the diffusion MRI signal representation while using impermeable
	Laplace eigenfunctions (1st author). DOI: 10.1088/1361-6560/acf022
2023.03	Conference talk, SIAM CSE2023
	Title: Morphological parameter estimation of neuron using a machine learning algorithm on diffusion MRI data (1st author)
2022.09	Journal article, Mathematics In Action
	Title: Asymptotic models of the diffusion MRI signal accounting for geometrical deformations (1st author)
2021.06	Conference article, ASME Turbo Expo 2021
	Title: Constraint handling in Bayesian optimization – A comparative study of support vector machine, augmented
	Lagragian and expected feasible improvement (2 nd author) DOI: https://doi.org/10.1115/GT2021-58562
2020.09	Journal article, IEEE Access
	Title: Robust Plane Wave Generator Design in Small Anechoic Chamber Setup Using Parameterized Field Method (1st
	author) DOI: 10.1109/ACCESS.2020.3029265
2020.02	Conference article, ASME Turbo Expo 2020
	Title: Prediction of non-linear mechanical behavior with deep neural network-application on low pressure turbine disc (3 rd
	author) DOI: 10.1115/GT2020-14382
2019.04	Conference article, European Association on Antennas and Propagation (Eucap2019)
	Title: Wideband circularly polarized coplanar waveguide fed rectangular frustum dielectric resonator antenna (1st author)
2017.08	Patent, Configurable band-pass filter based on liquid metal, Microwave engineering Lab,
	Beihang University
	A bandpass filter whose resonant frequency can be changed by changing the coupling line (in liquid metal) length.
Prize	
2019.09	2019-2020 Beihang University Academic Scholarship First prize
2018.09	2018-2019 Beihang University Academic Scholarship First prize
2016.09	Beihang 'Fengru' Innovation Competition Third prize
	Project: Portable solar charge system (5 members)
Intern Experien	ice
2019.05-2019.11	
2019.03 2019.11	year of Master internship, numerical optimization algorithm
	Tasks: Bayesian optimization for turbine design, codes implementation and comparative analysis; Reinforcement
	learning model implementation

learning model implementation

2016.06-2016.08 High Frequency and High Voltage Center, Institute of Microelectronics of Chinese Academy **Production intern** of Sciences

Tasks: Solar panel encapsulation

Skills Hobbies Language