杨哲乙 (YANG Zheyi)

Gender: Male Ethnicity: Han Nationality: Chinese Work Address: 828 Boulevard des Maréchaux, Palaiseau, 91120, France

Work Address: 828 Boulevard des Marechaux, Palaiseau, 91120, Fra Tel: +33 06 60 65 10 97 Email: zheyi.yang@polytechnique.edu 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	Thesis title: Numerical methods to estimate brain micro-structure from diffusion MRI data.	
	Advisor: Dr. Jing-Rebecca LI		
09.2017-07.2020	Master and Diplôme d'ingénieur in École Centrale de l	Master and Diplôme d'ingénieur in École Centrale de Pékin, Beihang University	
	, E		
		Research field: Microstrip filter design, Dielectric resonator antenna design, plan wave generator optimization	
	(complex value optimization)	(complex value optimization) Thesis title: Research and Design of Wideband Multi-Beam Circular Polarized Dielectric Resonant Antenna Array	
09.2016-02.2017		Exchange study in Université Libre de Bruxelles, Belgium for one semester	
09.2010-02.201		Major: Electric and electronic engineering. China Scholarship Council Scholarship (CSC)	
09.2013-07.2017	, ,	Bachelor in École Centrale de Pékin, Beihang University	
	Major: Mathematics and applied mathematics GPA: 83/100	-V	
Publication and			
2023.08	Journal article, IEEE Transactions on Medical Imaging (Un	der review)	
2023.00	Title: SpinDoctor-IVIM: An in-silico imaging framework for intravoxel incohe		
2023.08	Journal article, Medical Image Analysis (Under review)	,	
	Title: A simulation-driven supervised learning framework to estimate brain-mic	crostructure using diffusion MRI (2 nd author)	
2023.08	Journal article, Physics in Medicine and Biology		
		itle: Incorporating interface permeability into the diffusion MRI signal representation while using impermeable	
2022 02	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	: Morphological parameter estimation of neuron using a machine learning algorithm on diffusion MRI data (1 st author)	
2022.09		ournal article, Maths In Action	
2022.07		itle: 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 stud	Fitle: Constraint handling in Bayesian optimization - A comparative study of support vector machine, augmented	
		agragian and expected feasible improvement (2 nd author) DOI: https://doi.org/10.1115/GT2021-58562	
Journal article, IEEE Access			
	Title: Robust Plane Wave Generator Design in Small Anechoic Chamber Seauthor) DOI: 10.1109/ACCESS.2020.3029265	etup Using Parameterized Field Method (1st	
2020.02	Conference article, ASME Turbo Expo 2020		
Title: Prediction of non-linear mechanical behavior with deep neural ne		application on low pressure turbine disc (3 rd	
	author) DOI: 10.1115/GT2020-14382	orphical and the control of the cont	
2019.04	Conference article, European Association on Antennas and I		
	Title: Wideband circularly polarized grounded coplanar waveguide fed recta	angular frustum dielectric resonator antenna	
2017.00	(1st author)	otal Mianawaya anainaanina Lah	
2017.08	Patent, Configurable band-pass filter based on liquid metal, Microwave engineering Lab, Beihang University		
	A bandpass filter is proposed, whose coupling line is made of liquid metal. Th	e frequency hand/resonant frequency can be	
	changed by changing the 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)	r	
Intern Experie	nce		
2019.05-2019.1		ngine and AECC SI Last year of	
	Master internship, numerical optimization algorithm	•	

Master internship, numerical optimization algorithm

Tasks: Bayesian optimization for turbine design, codes implementation and comparative analysis; Reinforcement learning model implementation

learning moder implementation

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

Tasks: Solar panel encapsulation

Language Skills Hobbies