Jixiang Qing

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EDUCATION

July.2019-present	**Ghent University, Surrogate Modeling (SUMO) Lab** PhD Candidate of Engineering (Supervisor: Prof Tom Dhaene, Dr Ivo Couckuyt) • Research Majors: Surrogate Modeling (Gaussian Process), Bayesian Optimization/Active Learning, Machine Learning
Sep.2016-Apr.2019	**Northwestern Polytechnical University (NPU)** Master of Flight Vehicle Design • Research Majors: Ducted Fans, Applied Aerodynamic Optimization (optimization algorithms, framework construction) • Relevant Coursework: Aerodynamic Optimization Theories and Methods, Fundamentals of Aerodynamic Design, Fundamentals of Flight Vehicle Design, Matrix Theory, etc
Sep.2012-July.2016	**Northwestern Polytechnical University** Bachelor of Aircraft Design Engineering • Undergraduate dissertation: Design of a double-duct VTOL flight vehicle • Relevant Coursework: Aerodynamics, Automatic Control Theory, Aircraft Conceptual Design, Linear Algebra, Advanced Mathematics etc.

PUBLICATION

Journal	• **Qing, J**., Knudde, N., Garbuglia, F., Spina, D., Couckuyt, I., & Dhaene, T. (2021). "Adaptive sampling with automatic stopping for feasible region identification in engineering design". *Engineering with Computers*, 1-18.
Conference	• **Qing, J**., Knudde, N., Couckuyt, I., Spina, D., & Dhaene, T. (2020, March). "Bayesian active learning for electromagnetic structure design". In *2020 14th European Conference on Antennas and Propagation (EuCAP) (pp. 1-5)*. IEEE. • **Qing J**, Knudde N, Couckuyt I, Dhaene T, Shintani K (2020) "Batch Bayesian active learning for feasible region identifcation by local penalization". To appear in*: 2020 Winter Simulation Conference (WSC)*. IEEE • **Jixiang Qing**, Yu Hu, Yanling Wang; Zhonghuan Liu; Xuyang Fu. "Kriging assisted Integrated Rotor-Duct Optimization for Ducted Fan in Hover". *AIAA Science and Technology Forum and Exposition 2019* https://doi.org/10.2514/6.2019-0007 • Yu Hu **, Jixiang Qing**, Zhonghuan Liu. "Surrogate assisted multi objective investigation of ducted fan two critical parameters: duct weight and hovering efficiency". [under review]

SKILLS

Programming	• Python (familiar, 3 years+ experience on scientific computation, object-oriented programming, anaconda distribution, etc.) • MATLAB (familiar, 3 years+ experience) • familiar with git and GitHub, bitbucket
Numerical Optimization	• Gradient free optimization methods (GA, PSO, NSGA2, Hook-Jeeves, ACO, Golden search) • Gradient based methods (BFGS, etc.) • Surrogate based optimizations (Kriging/Gauss Process with their acquisition functions, Radial Basis Functions)
Others	• data visualization(Matplotlib, MATLAB, Excel, PowerPoint) • Good self-study ability and have rich experience on taking online courses on Cousera and Edx. • Markdown language, Jupyter notebook

LANGUAGES

	• Chinese (native language) • English (IELTS 7.0 overall: Listening:7.5, Reading: 7.5, Writing:6.0; Speaking: 6.5.