


Jaydeep Koradiya

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Aerospace Engineer



Personal statement I am a student of aerospace engineering specialising in Aerodynamics, at Technical University of Delft. I want to pursue my further career in experimental aerodynamics.

Research interests. Low-speed aerodynamics, Bluff body aerodynamics, flow control techniques.

Education

Sep 2015 – Feb 2018 (expected)	Master of Science (MSc) in Aerospace Engineering, <i>Technical University of Delft</i> (TUD), The Netherlands Master Track : Aerodynamics, Relevant course work : Flow measurement techniques, experimental simulation, Race car aerodynamics Extra-curricular : Aerodynamics engineer at student team Eco-runner Delft.
Aug 2011 – July 2015	Bachelor of Technology , <i>SRM University</i> , Chennai, India Automobile Engineering Volunteer at Green Nest for under-privileged children education

Projects & Experiences

April 2017 Present	Geometrical optimisation for cylinder drag reduction in constrained space, TU Delft, MSc Thesis <ul style="list-style-type: none">➤ Fundamental research on <i>two-dimensional cylinder flow</i>.➤ Geometry design of wind tunnel models by <i>2-D flow analysis</i> using <i>XFOIL</i> .➤ Drag quantisation by control volume approach using <i>PIV</i> technique in wind tunnel test.➤ Reconstruction of Pressure from velocity field by numerical solution of Poisson equations. <div>Wind tunnel testing Particle Image Velocimetry (PIV) Davis MATLAB Solidworks XFOIL</div>
Sept 2016 Aug 2017	Eco-runner Team, Delft, Student team participating in shell Eco-marathon <ul style="list-style-type: none">➤ Extract the spatio-temporal features and obtain "Bag of words" representation by clustering (k-means) the extracted features;➤ Infer the posterior by pLSA/LDA (unsupervised Learning) or by simple classifications (KNN, SVM);➤ Propose a simple method called 'voting' to achieve multiple actions recognition task.➤ : github.com/huajh/action_recognition <div>Wind tunnel testing Oil layer visualisation Xflow CFD Flow control techniques MATLAB Team work</div>
Feb 2016 April 2016	Research Intern, University of Southampton, Southampton, UK <ul style="list-style-type: none">➤ Apply the GMM, student-t mixture model, and Dirichlet process based infinite mixture model to the brain MR image clustering problem;➤ Derive the detail variational Bayesian inference process.➤ Improve these three algorithms by using laplacian graph (manifold learning);➤ : github.com/huajh/variational_bayesian_clusterings <div>Write the skills here</div>
Nov 2012 Jul 2012	Advance side-impact protection system, SRM University, Bachelor Thesis <ul style="list-style-type: none">➤ Responsible for the maintenance and development of Princeton Financial Systems.➤ As well as in charge of improving the performance of the system by integrating new technologies. <div>C/C++ programming C performance optimization portfolio</div>
Jul 2012 May 2011	Member of project team, Institute of intelligent systems, ZJUT <ul style="list-style-type: none">➤ Oct 2011-May 2012, write a paper <i>Traffic routing algorithm based on the spatial complex networks</i>;➤ May-Sep 2011, work on the project : <i>Motion Sensing PPT based on Kinect</i> Programmer. <div>complex networks kinect C#</div>

Dec 2011	Tiny Software development, ZJUT, C/C++/JAVA > Oct-Dec 2011, <i>Online Works Show Platform</i> <i>Leader</i> . I designed and implemented a lightweight relational object JDBC package, which is used for the programming of the server. Got the 2 nd place of the contest judged by the TaoBao UED. 📄: github.com/huajh/showplatform > Nov 2011, <i>Unix File System</i> <i>Independent developer</i> . The system is implemented by the C/C++. It has basic shell commands, well performed memory management, as well as the users management, and it supports parallel operation. 📄: github.com/huajh/unix_file_sys
Oct 2011	

JAVA
Unix
software development
Database
Sql Server

Skills

Programming Skills : C/C++, Matlab, L^AT_EX, Python, Java, Git.

Machine Learning : *master in* **Variational Bayes, Distributed Algorithms, Probablistic graphical models.**
familiar with most statistical machine learning/signal processing algorithms/techqiuies.
familiar with (convex) optimization theory, matrix theory.

Computer Vision : *have a certain understanding of* image processing (segmentation, classification, etc.), video analysis (object recognition, tracking, etc.).

Qualification Certificates : Database technology (3-level), Network engineer (mid-class), Software engineer (mid-class).

Languages

English : Reading ● ● ● ● ● CET-4 : 502
 Listening ● ● ● ● ○ CET-6 : 478
 Speaking ● ● ● ○ ○

Honors & Awards

Fall 2016 National Scholarship for Graduate Students of Zhejiang University (¥30,000).
 Fall 2016 Outstanding graduate student of Zhejiang University.
 Spring 2013 Outstanding undergraduate student of Zhejiang University of Technology (ZJUT).
 2010 - 2012 Scholarship and Merit Student of ZJUT(1st-class (<5%), 1 time; 2nd-class (<10%), 2 times).
 2011 & 2012 First-class Mathematical modeling Contest of ZJUT. (<5%, 2 times)
 Fall 2011 Second prize of National Mathematical Contest in Modeling (<6.5%).
 Fall 2010 First prize of National college students Mathematical Contest (non-math) in Zhejiang (<3%).

Interests

Sports : Basketball, Football, Climbing, Extreme sports, Wilderness survival.
Arts : Photography, Painting, Movies.
Misc : Traveling, Quantitative investment.

(last update : 13 Apr. 2017)