

Resume

Name: Ayan Biswas

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Current Status: Phd Candidate, 6th year (Joined 2010, Fall), The Ohio State University

Skill Set:

Competency	Details
1. Programming Languages	C, C++, Python, Java (& J2ME)
2. OS	WindowsCE, Linux(Android)
3. Parallel Programming	MPI, OpenMP, Thrust

Academic Background:

1. Pursuing PhD study in **The Ohio State University** with Prof. **Han-Wei Shen** on **Computer Graphics and Visualization** field since 2010 Fall. The study focuses on feature extraction from uncertain data elements in presence of multiple factors and quantification of error in the analysis.
2. Completed phd course credit hour requirements with current **GPA 3.945** (out of maximum possible 4.0).
3. Completed undergraduate study from 2003 to 2007 from **Jadavpur University** (Kolkata,India) in Computer Science and Engineering with **CGPA of 8.85** (out of maximum possible 10.0)

Journal Publication:

1. **"An Information-aware framework for Exploring Multivariate Datasets", Ayan Biswas, Soumya Dutta, Han-Wei Shen, and Jonathan Woodring, IEEE Transactions on Visualization and Computer Graphics 2013**
2. **"Visualization of Time-Varying Weather Ensembles Across Multiple Resolutions", Ayan Biswas, Guang Lin, Xiaotong Liu, and Han-Wei Shen IEEE Transactions on Visualization and Computer Graphics 2016**

Conference Publications:

1. **"Visualization of Time-Varying Weather Ensembles Across Multiple Resolutions", Ayan Biswas, Guang Lin, Xiaotong Liu, and Han-Wei Shen, IEEE Vis 2016**
2. **"A Scalable Streamline Generation Algorithm Using Parallel Flux-Based Stream Functions", Ayan Biswas, Jonathan Woodring, Richard Strelitz, Chun-Ming Chen, and Han-Wei Shen, EGPGV 2016**
3. **"Uncertainty Based Vortex Analysis and Detection Framework", Ayan Biswas, Qi Deng, Wenbin He, Han-Wei Shen, David Thompson, Pacific Vis 2015**
4. **"Evaluation of Stream Surfaces Using Error Quantification Metrics", Ayan Biswas and Han-Wei Shen, SPIE VDA conference, 2014**
5. **"An Information-aware framework for Exploring Multivariate Datasets", Ayan Biswas, Soumya Dutta, Han-Wei Shen, and Jonathan Woodring, IEEE Vis 2013**
6. **"Uncertainty Modeling and Error Reduction for Pathline Computation in Time-varying Flow Fields", Chun-Ming Chen, Ayan Biswas, Han-Wei Shen, Pacific Vis 2015**

7. **“Efficient Local Histogram Searching via Bitmap Indexing”**, Tzu-Hsuan Wei, Chun-Ming Chen, **Ayan Biswas**, Han-Wei Shen, **EuroVis 2015**
8. **“Supporting correlation analysis on scientific datasets in parallel and distributed settings”**, Yu Su, Gagan Agrawal, Jonathan Woodring, **Ayan Biswas**, Han-Wei Shen, **HPDC 2014**

On-Going Submissions:

1. “Generation of Uncertain Stream Surfaces ”, Ayan Biswas, Han-Wei Shen
2. “Multivariate Temporal Variability Visualization”, Soumya Dutta, Ayan Biswas, Xiaotong Liu, and Han-Wei Shen
3. “A Knowledge-driven Fuzzy Rule Based Tracking Algorithm for Time-varying Feature Analysis”, Soumya Dutta, Ayan Biswas, and Han-Wei Shen

Work Experience:

1. Working as a **Research Assistant** in Prof. Han-Wei Shen's visualization group from **2011-2016**. Undertaken multiple projects concerning our group's flow library “OSUFlow” and was part of NSF project in collaboration with professors and students from other universities.
2. Completed summer internship at **Los Alamos National Laboratory** from **May’15 to August’15**, working on parallel streamline generation and R/Python based variable selection tool under mentorship of Dr. Jonathan Woodring.
3. Completed summer internship at **Los Alamos National Laboratory** from **May’14 to August’14**, working on Hadoop framework, Python based statistical library PaCal and research on parallel streamlines under mentorship of Dr. Jonathan Woodring.
4. Completed summer internship at **Los Alamos National Laboratory** from **May’13 to August’13**, working on exploration of multivariate relationship for the Parallel Ocean Program data sets under mentorship of Dr. Jonathan Woodring.
5. Completed summer internship at **Los Alamos National Laboratory** from **June’12 to August’12** working on creating python scripts for Paraview for vector field visualization in single and multi processor environment under mentorship of Dr. Jonathan Woodring.
6. Worked in **STMicroelectronics (India)** from **2007 to 2010** as a software engineer. Completed projects in Android and Windows operating systems for the mobile devices. Written and tested video drivers ensuring quality and timely delivery of the product.
7. Undergraduate project with Prof. P.K.Das on **“An SMS Based Application for Agricultural Consultancy”**. This project provided a real life solution to query for price of crops at the local/remote market using the mobile devices through the support of local language. It required a middleware, database support and Java enabled mobile phone.

If required, more details will be provided about the projects.

Declaration: I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Place: Columbus, OH

(AyanBiswas)