Deepti Bathula



	Education	
May 2009	Ph.D. in Biomedical Engineering	Yale University, USA
May 2006	M.Phil. in Biomedical Engineering	Yale University, USA
Dec 2004	M.S. in Biomedical Engineeringg	Yale University, USA
May 2002	B.E. in Computer Systems Engineering	University of Auckland, NZ
	Work Empiones	
	Work Experience	
	Associate Professor Department of Computer Science & Engineering	Indian Institute of Technology Ropar ag Punjab, India
_	Assistant Professor Department of Computer Science & Engineerin	Indian Institute of Technology Ropar ng Punjab, India
	Parental Leave Extended maternity / child care leave to care:	for my new born child
-	Assistant Professor (On-Contract) Department of Computer Science & Engineering	Indian Institute of Technology Ropar ng Punjab, India
·	Research Associate Department of Psychiatry	Oregon Health & Science University Portland, OR, USA.
		37.1 77.
0	Graduate Research Assistant Department of Biomedical Engineering	Yale University New Haven, CT, USA.
11p1 2000	Department of Bioinculcar Engineering	ricw Haven, C1, Oph.
_	Teaching Assistant	Yale University
May 2008	Department of Biomedical Engineering	New Haven, CT, USA.
Summer	Research Intern	IBM Almaden Research Center
2008	Health Informatics	San Jose, CA, USA.
Summer	Software Programmer	Yale University
	Department of Neurology	New Haven, CT, USA.
I 0000	C. C	
	Software Engineer Symphonia	Orion Health Auckland, New Zealand
5 di 2000	~,	manifer to a zonalid

— Doctoral Thesis

Title Functional MRI Analysis Using Training-Based Prior Models of Activation Patterns

Advisor Professor James S. Duncan

Description Project introduces statistical activation priors to functional Magnetic Resonance Imaging (fMRI) data analysis. This novel idea involves learning brain activation patterns from previously conducted multi-subject fMRI studies to define functionally informed priors. These priors provide improved analysis by compensating for low SNR by inducing sensitivity to task-related regions of the brain.

Grants

2024 - 2026 $\,$ DBT - AI in Agriculture & Plant Science

Rs. 34 Lakhs

Co-PI Real time Detection of Plant Diseases using Federated Learning and Improved YOLO

2023 - 2026 DBT - Chronic Disease Biology Program

Rs. 71 Lakhs

Co-PI Antioxidative hydrogel-mesenchymal stem cells combinatorial therapy for targeting reactive astrogliosis (RA) induced neuropathy post spinal cord injury (SCI)

2023 - 2028 Pratiksha Trust EMSTAR Grant

Rs. 600 Lakhs

Co-PI Understanding Progression of Patients with Atypical Parkinsonism (ATPARK)

2023 - 2026 $\,$ DST - Fund for Improvement of S&T Infrastructure (FIST)

Rs. 158 Lakhs

Co-PI Enhancement of Infrastructure to Facilitate Innovation in Digital Health

2023 - 2026 DST - Core Research Grant (CRG)

Rs. 31 Lakhs

PI Characterization of Perfusion Deficit in Stroke Using Resting-State fMRI

2021 - 2023 DST - Cognitive Science Research Initiative (CSRI)

Rs. 22 Lakhs

PI Understanding Depression: A Multi-Site Machine Learning Approach

2018 - 2020 DST (Biomedical Instruments and Devices Hub, PGIMER)

Rs. 48 Lakhs

Co-PI Designing and Validating a Point Of Care Device for Rapid Platelet Count

2016 - 2019 Bio-X Consortium (IIT Ropar, IIT Mandi, PGIMER)

Rs. 40 Lakhs

Co-PI Development of Low-Cost MRI for Point of Care Testing and associated CAD system

2014 - 2017 Department of Science & Technology (DST-SERB)

Rs. 18 Lakhs

PI Neuroimaging - Towards Integrated Analysis of Multi-site Functional MRI Data

2011 - 2013 Institute Scheme for Innovation Research & Development (ISIRD)

Rs. 10 Lakhs

PI Development of Neuroimage Processing & Analysis Techniques

Consultancy Projects

2025 Dept. of Women's Health, Uppsala University (Phase-IV), Sweden Rs. 5.2 Lakhs

- PI Machine Learning Approach to PPD Risk Prediction Using Passive Data
- 2025 Renault Nissan Technology & Business Centre India, Chennai, India Rs. 2.9 Lakhs
 - PI Exploring the Efficacy of taVNS in Enhancing Motor Learning Using fMRI
- 2024 Renault Nissan Technology & Business Centre India, Chennai, India Rs. 3.5 Lakhs
 - PI fMRI Data Processing & Analysis A Hands-On Workshop
- 2022 Broadridge NHO Program (Phase IV), Hyderabad, India Rs. 7.5 Lakhs
- Co-PI New Hire On-Boarding Program
- 2021 Broadridge NHO Program (Phase III), Hyderabad, India Rs. 11.4 Lakhs
- Co-PI New Hire On-Boarding Program
 - 2021 Dept. of Women's Health, Uppsala University (Phase-III), Sweden Rs. 2.1 Lakhs
 - PI Deep Learning for PPD Risk Prediction
- 2020 Broadridge NHO Program (Phase II), Hyderabad, India Rs. 8.0 Lakhs
- Co-PI New Hire On-Boarding Program
 - 2020 Broadridge NHO Program (Phase I), Hyderabad, India Rs. 10.5 Lakhs
- Co-PI New Hire On-Boarding Program
 - 2020 Dept. of Women's Health, Uppsala University (Phase-II), Sweden Rs. 4.1 Lakhs
 - PI Deep Learning for PPD Risk Prediction
 - 2019 Dept. of Women's Health, Uppsala University (Phase-I), Sweden Rs. 3.8 Lakhs
 - PI Machine Learning for PPD Risk Prediction

Publications

Journal Articles

- [1] A. Sikka, S. V. Peri, J. S. Virk **D. R. Bathula**, MRI to PET Cross-Modality Translation using Globally and Locally Aware GAN (GLA-GAN) for Multi-Modal Diagnosis of Alzheimer's Disease. Accepted to Journal of Precision Medicine: Health and Disease 2025.
- [2] U. Niyaz, A. S. Sambyal, **D. R. Bathula**, Leveraging Different Learning Styles for Improved Knowledge Distillation, Computers in Biology & Medicine, 168, 2024.
- [3] A. S. Sambyal, U. Niyaz, N. C. Krishnan, D. R. Bathula, Understanding Calibration of Deep Neural Networks for Medical Image Classification, Computer Methods and Programs in Biomedicine, 242, 2023.
- [4] S. Gallo, A. ElGazzar, P. Zhutovsky, R. M. Thomas, N. Javaheripour, M. Li, **D. R. Bathula**, G. van Wingen, Thalamic hyperconnectivity as neurophysiological signature of major depressive disorder in two multicenter studies. *Molecular Psychiatry*, 2023.
- [5] S. Bagchi, D. R. Bathula, EEG-ConvTransformer for Single-Trial EEG based Visual Stimuli Classification. Pattern Recognition, 129, 2022.

- [6] S. Andersson, **D. R. Bathula**, S. I Iliadis, M. Walter, A. Skalkidou, Predicting women with depressive symptoms postpartum with machine learning methods. *Scientific Reports*, 11 (1), 1-15, April 2021.
- [7] A. Sikka, H. Jamalabadi, M. Krylova, S. Alizadeh, J. N. van der Meer, L. Danyeli, M. Deliano, P. Vicheva, T. Hahn, T. Koenig, D. R. Bathula, M. Walter, Investigating the temporal dynamics of electroencephalogram (EEG) microstates using recurrent neural networks. *Human Brain Mapping*, February 2020, Article 24949.
- [8] J. I. Orlando, H. Fu, J. B. Breda, K. Keer, D. R. Bathula, A. Diaz-Pinto, R. Fang, P. Heng, J. Kim, J. Lee, J. Lee, X. Li, P. Liu, S. Lu, B. Murugesan, V. Naranjo, S. R. Phaye, S. M. Shankaranarayana, H. Bogunovic, A. Sikka, REFUGE Challenge: A unified framework for evaluating automated methods for glaucoma assessment from fundus photographs. Medical Image Analysis, Volume 59, January 2020, Article 101570.
- [9] D. A. Fair, J. T. Nigg, S. Iyer, D. R. Bathula, K. L. Mills, N. U. Dosenbach, B. L. Schlaggar, M. Mennes, D. Gutman, S. Bangaru, J. K. Buitelaar, D. P. Dickstein, A. Di Martino, D. N. Kennedy, C. Kelly, B. Luna, J. B. Schweitzer, K. Velanova, Y. F. Wang, S. Mostofsky, F. X Castellanos, M. P. Milham, Distinct neural signatures detected for ADHD subtypes after controlling for micro-movements in resting state functional connectivity MRI data, Frontiers in Systems Neuroscience, February 2013.
- [10] T. G. Costa Dias, V. B. Wilson, D. R. Bathula, S. P. Iyer, K. L. Mills, B. L. Thurlow, C. A. Stevens, E. D. Musser, S. D. Carpenter, D. S. Grayson, S. H. Mitchell, J. T. Nigg, D. A. Fair, Reward circuit connectivity relates to delay discounting in children with attention-deficit/hyperactivity disorder, European Neuropsychopharmacology, 23(1):33-45, January 2013.
- [11] D. A. Fair, **D. R. Bathula**, M. A. Nikolas and J. T. Nigg, Distinct neuropsychological subgroups in typically developing youth inform heterogeneity in children with ADHD, *Proceedings of the National Academy of Sciences*, 109(17):6769-6774, April 2012.
- [12] K. L. Mills, **D. R. Bathula**, T. G. Dias, S. P. Iyer, M. C. Fenesy, E. D. Musser, C. A. Stevens, B. L. Thurlow, S. D. Carpenter, B. J. Nagel, J. T. Nigg and D. A. Fair, Altered Cortico-Striatal-Thalamic Connectivity in relation to Spatial Working Memory Capacity in Children with ADHD, Frontiers in Psychiatry, January 2012.
- [13] B. J. Nagel, **D. R. Bathula**, M. Herting, C. Schmitt, C. D. Kroenke, D. A. Fair and J. T. Nigg, Altered White Matter Microstructure in Children with ADHD, Journal of the American Academy of Child and Adolescent Psychiatry, 50(3):283-92, March 2011.
- [14] D. A. Fair, J. Posner, B. J. Nagel, **D. R. Bathula**, T. G. Dias, K. L. Mills, M. S. Blythe, A. Giwa, C. F. Schmitt and J. T. Nigg, Atypical Default Network Connectivity in Youth with ADHD, *Biological Psychiatry*, 68(12):1084-91, December 2010.
- [15] D. A. Fair, **D. R. Bathula**, K. L. Mills, T. G. Dias, M. S. Blythe, D. Zhang, A. Z. Snyder, M. E. Raichle, A. A. Stevens, J. T. Nigg and B. J. Nagel, Maturing thalamocortical functional connectivity across development, Frontiers in Systems Neuroscience, 4:10, May 2010.

Peer-Reviewed Conference Articles

- [1] A. S. Sambyal, U. Niyaz, N. C. Krishnan, D. R. Bathula, LS+: Informed Label Smoothing for Improving Calibration in Medical Image Classification, Medical Image Computing and Computer Assisted Interventions (MICCAI), October 2024.
- [1] U. Niyaz, A. S. Sambyal, **D. R. Bathula**, Wavelet-Based Feature Compression for Improved Knowledge Distillation, *IEEE 21st Int. Sym. on Biomedical Imaging (ISBI)*, May 2024.
- [2] A. Chaudhuri, A. S. Sambyal, **D. R. Bathula**, Mutually Exclusive Multi-Modal Approach for Parkinson's Disease Classification, 11th International Conference on Bioimging, February 2024
- [3] J. S. Virk, D. Mahapatra, **D. R. Bathula**, Medical VQA: MixUp Helps Keep it Simple,. The 37th International Conference on Image and Vision Computing New Zealand (IVCNZ), November 2022.

- [4] U. Niyaz, **D. R. Bathula**, Augmenting Knowledge Distillation With Peer-To-Peer Mutual Learning For Model Compression, *IEEE 19th Int. Sym. on Biomedical Imaging (ISBI)*, March 2022.
- [5] A. S. Sambyal, N. C. Krishnan, D. R. Bathula, Towards Reducing Aleatoric Uncertainty for Medical Imaging Tasks, IEEE 19th Int. Sym. on Biomedical Imaging (ISBI), March 2022.
- [6] R. R. Chowdhury, D. R. Bathula, Influential Prototypical Networks for Few Shot Learning: A Dermatological Case Study. IEEE 19th Int. Sym. on Biomedical Imaging (ISBI), March 2022.
- [7] A. J. Thomas, D. R. Bathula, 3D Multi-voxel pattern based machine learning for multi-center fMRI data normalization. 6th IAPR International Conference on Computer Vision & Image Processing (CVIP), December 2021.
- [8] S. Bagchi, D. R. Bathula, Adequately Wide 1D CNN facilitates improved EEG based Visual Object Recognition. 29th European Signal Processing Conference (EUSIPCO), 1276-1280, August 2021.
- [9] J. S. Virk, D. R. Bathula, Domain-Specific, Semi-Supervised Transfer Learning for Medical Imaging. ACM International Joint Conference on Data Science and Management of Data (CODS-COMAD), January 2021
- [10] S. Bagchi, A. Banerjee, D. R. Bathula, Learning a meta-ensemble technique for skin lesion classification and novel class detection. IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, June 2020.
- [11] A. Sikka, S. S. R. Phaye, A. Dhall, **D. R. Bathula**, Multi-level Dense Capsule Networks, Asian Conference on Computer Vision (ACCV), December 2018.
- [12] A. Sikka, S. V. Peri, **D. R. Bathula**, MRI to FDG-PET: Cross-Modal Synthesis Using 3D U-Net For Multi-Modal Alzheimer's Classification, Medical Image Computing and Computer Assisted Intervention (MICCAI) Simulation and Synthesis in Medical Imaging (SASHIMI) Workshop, September 2018.
- [13] Sikka, G. Mittal, **D. R. Bathula**, N. C. Krishnan, Supervised deep segmentation network for brain extraction, International Conference on Computer Vision, Graphics and Image Processing (ICVGIP), December 2016.
- [14] G. Bansal, P. Gera and **D. R. Bathula**, Template based Classification of Cardiac Arrhythmia in ECG Data, *IEEE International Conference on Recent Trends in Information Systems* (ReTIS-15), July 2015.
- [15] A. J. Thomas and D. R. Bathula, Reducing Inter-Scanner Variability in Multi-Site FMRI Activations Using Correction Functions: A Preliminary Study, IEEE International Conference on Computing, Communication and Automation (ICCCA), May 2015.
- [16] A. J. Thomas and **D. R. Bathula**, Reducing inter-scanner variability in multi-site fMRI data: Exploring choice of reference activation map and use of correction functions, *IEEE Winter Workshop on Machine Intelligence and Signal Processing (MISP)*, December 2014.
- [17] D. R. Bathula, L. H. Staib, H. D. Tagare, X. Papademetris, R. T. Schultz and J. S. Duncan, Multi-Group Functional MRI Analysis Using Statistical Activation Priors, MICCAI Workshop on fMRI Analysis, September 2009.
- [18] **D. R. Bathula**, H. D. Tagare, L. H. Staib, X. Papademetris, R. T. Schultz and J. S. Duncan, Bayesian Analysis of fMRI Data with ICA Based Spatial Prior, *Int. Conf. on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, Part II: 246 254, September 2008.
- [19] **D. R. Bathula**, X. Papademetris and J. S. Duncan, Level Set-Based Clustering of Active Regions in Functional MRI, *IEEE Int. Sym. on Biomedical Imaging (ISBI)*, 416 419, April 2007.

Extended Abstracts/Posters

- [1] R. R. Chowdhury, U. Niyaz, **D. R. Bathula**, Class-Wise Feature Map Selection Based Prototypical Networks, *IEEE Int. Sym. on Biomedical Imaging (ISBI)*, May 2024, Athens, Greece.
- [2] P. Madaan, **D. R. Bathula**, P. Dhir, S. Negi, N. Sankhyan, S. Vyas, J. Sahu, Resting-state functional MRI-based connectivity analysis in infantile epileptic spasms syndrome, *International Child Neurology Conference (ICNC)*, May 2024, Cape Town, South Africa.
- [3] M. Li, N. Sharma, L. Danyeli, L. Colic, N. Opel, T. Chand, W. Qin, **D. R. Bathula**, M. Goswami, B. Zhang, Z. Duygu Sen, M. Walter, Ketamine-Induced Ego Dissolution is Related to the Functional Connectivity Reconfiguration of the Posteromedial Cortex, 93(9), S93, Biological Psychiatry, 2023.
- [4] A. Bilal, **D. R. Bathula**, E. Bränn, E. Fransson, J. S. Virk, F. Papadopoulos, A. Skalkidou, Mom2B: a study of perinatal health via smartphone application and machine learning methods, 65(S1), S574-S575, European Psychiatry, 2022.
- [5] H. Jamalabadi*, A. Sikka*, S. Alizadeh, M. Krylova, J. Van der Meer, **D. R. Bathula**, M. Walter, Deep networks can learn subject-invariant electroencephalography microstate sequences. *Organization for Human Brain Mapping (OHBM)*, June 2018, Singapore.
- [6] K. L. Mills, D. R. Bathula, et. al. Altered cortico-striatal-thalamic connectivity in relation to spatial working memory capacity in children with ADHD, Neuroscience (SFN), November 2011, Washington, D.C., USA.
- [7] D. A. Fair, **D. R. Bathula**, Joel Nigg, et. al. Using resting-state fcMRI to characterize the developmental course of subjects with ADHD, *Human Brain Mapping (HBM)*, June 2011, Québec City, Canada.
- [8] T. Costa Dias, E. Musser, V. Wilson, **D. R. Bathula**, et. al. Reward circuit connectivity relates to delay discounting in children with ADHD, *Human Brain Mapping (HBM)*, June 2011, Québec City, Canada.
- [9] K. L. Mills T. Costa Dias, M. S. Blythe, **D. R. Bathula**, et. al. Atypical thalamocortical connectivity in ADHD youth, *Neuroscience (SFN)*, November 2010, Washington, D.C., USA.
- [10] D. R. Bathula, D. A. Fair, K. L. Mills T. Costa Dias, M. S. Blythe, J. T. Nigg, B. J. Nagel, Differential relations between functional and structural thalamocortical connectivity across development, Neuroscience (SFN), November 2010, Washington, D.C., USA.
- [11] D. R. Bathula, X. Papademetris and J. S. Duncan, Anatomically-Informed Clustering of Functional MRI Data, Proc. of the Biomedical Engineering Society Annual Fall Meeting (BMES), October 2006, Chicago, USA.

Invited Talks / Seminars

- May 2025 CAD for Medical Image Analysis: A Deep Learning Perspective

 Electronics and ICT Academy Online Faculty Development Program (FDP) on AI in Medical
 Imaging and Diagnostics: Current Trends and Challenges, MNIT Jaipur, India
- Apr 2025 AI in Medical Imaging: Challenges, Solutions, and Future Prospects

 Guest Lecture, Lovely Professional University, India.
- Mar 2025 AI in Medicine: Opportunities & Challenges

 AICTE ATAL Faculty Development Programme (FDP) on "Advanced Machine Learning:
 Diverse Applications from Healthcare to Industr", Punjab Engineering College (PEC), India.
- Mar 2023 Machine Learning for NeuroImaging & Diagnostics

- Workshop on Computational Neuroscience & Artificial Intelligence, IIT Delhi, India.
- Sep 2022 Medical Image Processing & Analysis
 Workshop for iHub and HCI Foundation, IIT Mandi, India.
- Apr 2022 Deep Learning for Medical Imaging: Challenges & Opportunities

 Keynote Speaker, International Conference on Ambient Intelligence in Health Care (ICAIHC-2022), Siksha 'O' Anusandhan, India.
- Mar 2022 Applications of AI: Opening new avenues for Medical Image Analysis of NeuroImaging Data Expert Talk, High-End workshop (Karyashala) on Role of Artificial Intelligence in Bio-Medical and Health Informatics (RAIBHI-2022), NIT Silchar, India.
- Sep 2019 Medical Imaging Meets Machine Learning

 Expert Talk, STC on Pattern Recognition and Cyber Security Applications, NIT Kurukshetra, India.
- Jan 2019 Breaking Boundaries of Interdisciplinary Collaboration Linking Medicine with Engineering
 Invited Speaker, Institutional Research Day Celebrations, Dayanand Medical College (DMC)
 Ludhiana, Punjab, India
- Jan 2019 Frontiers of Machine Learning in Medical Imaging

 Speaker, TEQIP Workshop on Deep Learning and Internet of Things (IoT), UIET, Kurukshetra
 University, India
- Jul 2016 Machine Learning for Medical Imaging Expert Session, TEQIP Sponsored Workshop on "Image Processing and Machine Learning for Pattern Recognition", UIET, Punjab University, Chandigarh, India
- Apr 2015 MRI Modalities: Emerging tools for studying brain development

 Speaker, Industry Institute Interaction Week, PEC University of Technology, Chandigarh,
 India
- Mar 2015 Medical Image Analysis: Role of Image Segmentation

 Expert Lecture, IETE Student Chapter, Chitkara University, Rajpura, Punjab, India
- Oct 2014 An Introduction to the exciting field of NeuroImaging!

 Expert Lecture, WIE/ACM-W/IEEE Chapters, Thapar University, Patiala, Punjab, India
- Nov 2013 NeuroImaging with MRI: An Insight Into Brain Structure & Function Speaker, Symposium on Image Processing & Pattern Recognition, SAU, New Delhi, India
- Oct 2013 Brain Connectivity Analysis Using Resting State Functional MRI Expert Lecture, Panjab University (PU), Chandigarh, India
- Aug 2011 Functional MRI Analysis Using Training Based Prior Models of Activation Patterns Invited Talk, National Brain Research Center, Manesar, Haryana, India

Honors & Awards

2009	Harding Bliss Prize for excellence in Engineering research	Yale University
2003	Frederick M. Adler Graduate Research Fellowship	Yale University
2003	Employee of the Quarter Award	Orion Health
2001	Senior Project Prize in Digital Systems Design	University of Auckland
2000 - 2001	Access Award	University of Auckland
1999 - 2001	Dean's Honor List Nominee, School of Engineering	University of Auckland
1999 - 2001	Senior Prize in Computer Systems Engineering	University of Auckland
1997	"Academic Dux" Award for best performance	Lynfield College

Professional Service / Activities

- Member Institute of Electrical and Electronics Engineers (IEEE)
 - IEEE Engineering in Medicine and Biology Society (EMBS)
 - IEEE Women in Engineering (WIE)
 - Institute of Professional Engineers New Zealand (IPENZ)

- Program International Conference on Signal, Image and Video Processing (ICSIVP)
- Committee Nat'l. Conf. on Computer Vision, Pattern Recognition, Image Processing & Graphics Member (NCVPRIPG)

- Reviewer Journal Medical Image Analysis Journal (Elsevier)
 - Journal IEEE Transactions of Medical Imaging (IEEE-TMI)
 - Journal IEEE Transactions on Image Processing (IEEE-TIP)
 - Journal IEEE Transactions on Radiation and Plasma Medical Sciences (IEEE-TRPMS)
 - Journal Multimedia Tools and Applications (Springer)
 - Journal Computers in Biology and Medicine (Elsevier)
 - Journal Computer Methods and Programs in Biomedicine (Elsevier)
 - Journal Pattern Recognition Letters (Elsevier)
 - Journal Nature Scientific Reports (Springer)
 - Journal Neural Networks (Elsevier)
 - Journal Engineering Applications of Artificial Intelligence (Elsevier)
 - Review Editor on the Frontiers Editorial Board of Brain Imaging Methods (specialty section of Frontiers in Neuroscience and Frontiers in Neurology)
 - Conference Int. Symp. on Biomedical Imaging (ISBI)
 - Conference Int. Conf. on Computer Vision, Graphics and Image Processing (ICVGIP)
 - Conference Int. Conf. on Signal, Image and Video Processing (ICSIVP)
 - Conference Int. Conf. on Medical Image Computing & Computer-Assisted Intervention (MICCAI)

Teaching

Undergraduate Courses

2011-2025

Data Structures

Computer Vision

Computer Graphics

Artificial Neural Networks

Digital Image Processing & Analysis

Programming Paradigms & Pragmatics

Technology Museum Lab

Graduate Courses

 $2011\hbox{-}2025\quad \hbox{Physics of Medical Imaging}$

Biomedical Image Processing & Analysis Advanced Image Processing & Analysis

Computer Skills

Operating Systems

 ${\bf Operating \ \ Unix/Linux, \, Microsoft \, Windows, \, DOS}$

Programming Languages

Programming MatLab, C, C++, Java, Visual Basic, Delphi, Perl, Python, Tcl/Tk, Assembly

Software

Other Mathematica, LabView, VTK/ITK, R, SPSS, SYSTAT, T_EX , IAT_EX