Madalina Fiterau

Curriculum Vitae

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College of Information and Computer Sciences
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Objective

Build intelligent systems that aid decision-making by extracting compact models and salient representations from heterogeneous data. Solve problems stemming from multimodal applications; Topics: dimensionality reduction, interpretability, transfer learning, hybrid models, vision, pattern detection, time series analysis, healthcare.

Academic Positions

2018–now **Assistant Professor**, *University of Massachusetts, Amherst, College of Information and Computer Sciences*, Amherst MA.

Research Hybrid systems that integrate multimodal, multisource data and learn models that help users interpret the data. Current projects: irregular, multiresolution time series integration; transfer across related unstructured datasets; enhancing disease trajectory prediction using images and weak supervision.

Teaching 683 Graduate Artificial Intelligence (Spring 2019)

569 Machine Learning (Fall 2019)

690 Optimization (Scheduled Spring 2020)

2015–2018 **Postdoctoral Fellowship**, *Stanford University, Computer Science Department and the Mobilize Center*, Stanford, CA.

Advisor: Christopher Ré (Computer Science); Co-advisor: Scott Delp (Bioengineering).

Research Applying deep learning to obtain salient representations from biomedical 'deep' data, including time series and images. Developed method that fused these representations with structured clinical records to form comprehensive models in order to detect clinical instability as well as patterns related to medical conditions such as cerebral palsy, osteoarthritis, obesity and running injuries.

Education

2009–2015 **PhD in Machine Learning**, *Carnegie Mellon University, School of Computer Science, Machine Learning Department*, Pittsburgh, PA, PhD advisor: Artur Dubrawski.

Thesis *Discovering Compact and Informative Structures through Data Partitioning*. CMU, SCS, MLD. Committee: Geoff Gordon, Andreas Krause and Alex Smola.

Research	Uncovering/leveraging structure in data to build compact ensembles of low-dimensional components, such that every sample can be handled using one sub-model or using a sparse mixture of them. The assignment of samples to sub-models and the component dimensionality reduction are performed jointly, using convex formulations. The techniques were successfully applied to medical data, resulting in models which were deemed informative by clinicians, significantly decreasing annotation effort.
2009–2012	**MSc in Machine Learning**, *Carnegie Mellon University, School of Computer Science, Machine Learning Department*, Pittsburgh, PA.
Data Analysis Project	*Trade-offs in Explanatory Model Learning*. CMU, MLD, Spring 2012. Committee: Artur Dubrawski, Geoff Gordon and Jeff Schneider.
Research	Explaining datasets: extracting high-accuracy regions in low-dimensional projections of the feature space; context specific models and their connection to compressed sensing and information-theoretical concepts like minimum description length.
	Detection of complex anomalous patterns: clinical alarm preemption by vital sign and treatment monitoring; faulty treatment detection; abnormal vital pattern detection and clustering.
	Rule learning: introduced learning algorithm for expressions containing conjunctions, disjunctions and negations.
Courses	Machine Learning, Intermediate Statistics, Statistical Machine Learning, Advanced Statistical Theory, Graduate Artificial Intelligence, Probabilistic Graphical Models, Graduate Algorithms, Multimedia Databases and Data Mining, Mobile Robot Development, Advanced Mobile Robot Development, Machine Learning Theory (audited), Information Processing and Learning.
2005–2009	**Bachelors Degree in Computer and Software Engineering**, *Politehnica University of Timisoara, School of Automation and Computing*, Romania, GPA: 9.80/10.
Diploma Project	*Handover Algorithm Design and Simulation*. Advisors: Dr. Gabriel-Miro Muntean, Prof. Ioan Jurca.
Spring 2009	**Erasmus Exchange Program**, *University of Amsterdam*, The Netherlands.
Courses	from Masters track in Grid Computing: Concurrent Systems, Theory and Application of Multithreading.
Project	Expression recognition: developed a clustering algorithm that enables features of person-dependent classification to be used in person-independent classification.

Internships

Jul–Oct 2014	**Microsoft Research**, *Cambridge*, UK.
	Introduced backpropagation in random forests with fuzzy decision trees
	Host: Peter Kontschieder, Microsoft Research (a-pekont@microsoft.com)
	External Collaborator: Samuel Rota-Bulo, (rotabulo@fbk.eu)
Jun–Sep 2013	**Google**, *New York*, NY.
	Estimated the creation date for businesses displayed on Google Maps
	Host: Parisa Haghani (parisah@google.com)
Jun–Sep 2011	**Google**, *Pittsburgh*, PA.
	Explored impact of commercial intent in content ad selection
	Host: Jonathan Scott (jsco@google.com)
Jun-Aug 2008	**Dublin City University**, *Ireland*.

Odysseus summer school project: Performance of Group Handover in Heterogeneous Wireless Networks. Advisor: Gabriel Miro-Muntean (munteang@eeng.dcu.ie)

Designed and tested a handoff algorithm for mobile devices equipped with multiple wireless interfaces

2006–2009 **Alcatel-Lucent**, *Timisoara*, Romania.

Part time, software development and maintenance for internal tools;

MacroWeb – developed application for remote execution of commands scripts on network stations (C++/Java, Python);

Agora – performed bug fixes and maintenance, enhanced license generation, optimized import of audit files (VB 6.0);

Jul–Sep 2007 **Siemens VDO Automotive**, *Timisoara*, Romania.

Programmed configurable RF receiver for identifying datagrams sent by car keys (C)

Jul–Sep 2006 **Siemens VDO Automotive**, *Timisoara*, Romania.

Built an equipment management tool using Visual Basic 6 and T-SQL

Publications

Conference and Journal Papers

JAMA Brett Beaulieu-Jones, Samuel G. Finlayson, Corey Chivers, Irene Chen, Matthew McDermott, Jasvinder S. Kandola, Adrian Dalca, Andrew Beam, **Madalina Fiterau**, Tristan Naumann, *A Description of Trends and Focus of Machine Learning Applications for Health Research: A Qualitative Analysis*, JAMA Network Open (accepted, to appear)

MLHC Joie Yeahuay Wu, Surya Teja Devarakonda, Yi Ren Fung, **Madalina Fiterau**, *FLARe: Forecasting by Learning Anticipated Representations*, 5th Conference on Machine Learning for Healthcare, MLHC 2019

NATURE Jason A Fries, Paroma Varma, Vincent S Chen, Ke Xiao, Heliodoro Tejeda, Priyanka Saha, Jared Dunnmon, Henry Chubb, Shiraz Maskatia, **Madalina Fiterau**, Scott Delp, Euan Ashley, Christopher Ré, James Priest, *Weakly supervised classification of aortic valve malformations using unlabeled cardiac MRI sequences*, Nature Communications, July 2019

PLOS1 Hyatt E Moore IV, K. Farish Haydel, Jorge A. Banda, **Madalina Fiterau**, Manisha Desai, Thomas N. Robinson, *Potential corner case cautions regarding publicly available implementations of the National Cancer Institute's nonwear/wear classification algorithm for accelerometer data*, PLOS ONE, December 2018

JBM Eni Halilaj, Apoorva Rajagopal, **Madalina Fiterau**, Jennifer L. Hicks, Trevor J. Hastie, and Scott L. Delp. *Machine Learning in Human Movement Biomechanics: Best Practices, Common Pitfalls, and New Opportunities*. Journal of Biomechanics, September 2018

MLHC **Madalina Fiterau**, Suvrat Bhooshan, Jason Fries, Charles Bournhonesque, Jennifer Hicks, Eni Halilaj, Christopher Ré and Scott Delp. *ShortFuse: Biomedical Time Series Representations in the Presence of Structured Information*. 3rd Conference on Machine Learning for Healthcare, MLHC 2017. Also presented at the Women in Statistics and Data Science Conference, WSDS, October 2017

IJCAI Invited paper: Peter Kontschieder, **Madalina Fiterau**, Antonio Criminisi and Samuel Rota-Bulo. *Deep Neural Decision Forests*. Sister Conference Best Paper Track at the 25th International Joint Conference in Artificial Intelligence 2016

JCCM   Lujie Chen, Artur Dubrawski, Donghan Wang, **Madalina Fiterau**, Mathieu Guillame-Bert, Eliezer Bose and Ata M. Kaynar. *Using Supervised Machine Learning to Classify Real Alerts and Artifact in Online Multisignal Vital Sign Monitoring Data*. Journal of Critical Care Medicine, July 2016

ICCV   Peter Kontschieder, **Madalina Fiterau**, Antonio Criminisi and Samuel Rota-Bulo. *Deep Neural Decision Forests*. International Conference in Computer Vision, ICCV 2015 ⋆ **Marr Prize for Best Paper**

AAAI   **Madalina Fiterau** and Artur Dubrawski. *Active learning for Informative Projection Recovery*. Conference of the Association for the Advancement of Artificial Intelligence, AAAI 2015

AAAI   Nick Gisolfi, **Madalina Fiterau** and Artur Dubrawski. *Finding Meaningful Gaps to Guide Data Acquisition for a Radiation Adjudication System*. Conference of the Association for the Advancement of Artificial Intelligence, AAAI 2015

AAAI   Matt Barnes, Nick Gisolfi, **Madalina Fiterau** and Artur Dubrawski. *Leveraging Common Structure to Improve Prediction across Related Datasets*. Conference of the Association for the Advancement of Artificial Intelligence, AAAI 2015

ICMLA   **Madalina Fiterau** and Artur Dubrawski. *Informative projection recovery for classification, clustering and regression*. International Conference on Machine Learning and Applications, ICMLA 2013

NIPS   **Madalina Fiterau** and Artur Dubrawski. *Projection retrieval for classification*. Advances in Neural Information Processing Systems, NIPS 2012

LCN   **Madalina Fiterau**, Olga Ormond and Gabriel-Miro Muntean. *Performance of Handover for Multiple Users in Heterogeneous Wireless Networks*. IEEE Conference on Local Computer Networks, LCN 2009

Conference Extended Abstracts

BioMedEng   Abhinav Shaw, Natcha Simsiri, Iman Deznabi, **Madalina Fiterau**, Tauhidur Rahman, *Personalized Student Stress Prediction with Deep Multitask Networks*. BioMedEng, September 2019

BioMedEng   Joie Yeahuay Wu, Surya Teja Devarakonda, Yi Ren Fung, **Madalina Fiterau**, *Alzheimer's Disease Forecasting using Generative Representation Prediction*. BioMedEng, September 2019

BDBM   Ferdinand Legros, **Madalina Fiterau**, Jennifer Hicks, Michael Schwartz and Scott Delp. *Predicting the Outcome of Hamstring Surgery in Patients with Cerebral Palsy via Bayesian Networks*. Big Data in Biomedicine, May 2017, Stanford

JSM   Manisha Desai, **Madalina Fiterau**, Jennifer Hicks and Thomas Robinson. *Accelerometer Wear and Non-wear Classification using an Ensemble of Unsupervised Predictors*. Joint Statistical Meeting, August 2016

SCCM   **Fiterau M**, Wang J, Dubrawski A, Clermont G, Hravnak M, Pinsky MR. *Using expert review to calibrate semi-automated adjudication of vital sign alerts in stepdown units*. Society of Critical Care Medicine Annual Congress, SCCM 2016 ⋆ **Star Research Award**

ESICM   **Fiterau M**, Dubrawski A, Wang D, Chen L, Guillame-Bert M, Hravnak M, Clermont G, Bose E, Holder A, Murat Kaynar A, Wallace D, Pinsky MR. *Semi-automated Adjudication of Vital Sign Alerts in Stepdown Units*. Annual Congress of the European Society of Intensive Care Medicine, ESICM 2015

SCCM **Fiterau M**, Dubrawski A, Chen L, Hravnak M, Bose E, Gilles C, Pinsky MR. *Archetyping artifacts in monitored noninvasive vital signs data*. Society of Critical Care Medicine Annual Congress 2015

SCCM Wang D, **Fiterau M**, Dubrawski A, Hravnak M, Clermont G and Pinsky MR. *Interpretable active learning in support of clinical data annotation*. Society of Critical Care Medicine Annual Congress 2015

RCCM Hravnak M, Chen L, **Fiterau M**, Dubrawski A, Clermont G, Guillame-Bert M, Bose E, Pinsky MR. *Active machine learning to increase annotation efficiency in classifying vital sign events as artifact or real alerts in continuous noninvasive monitoring*. American Journal of Respiratory and Critical Care Medicine 2014

ESICM **Fiterau M**, Dubrawski A, Chen L, Hravnak M, Clermont G, Bose E, Guillame-Bert M, Pinsky MR. *Artifact adjudication for vital sign step-down unit data can be improved using Active Learning with low-dimensional models*. Annual Congress of the European Society of Intensive Care Medicine 2014

ESICM Wang D, Chen L, **Fiterau M**, Dubrawski A, Hravnak M, Bose E, Wallace D, Kaynar M, Clermont G, Pinsky MR. *Multi-tier ground truth elicitation framework with application to artifact classification for predicting patient instability*. Annual Congress of the European Society of Intensive Care Medicine 2014

ESICM Hravnak M, Chen L, Dubrawski A, Clermont G, Bose E, **Fiterau M**, Guillame-Bert M, Pinsky MR. *Supervised Machine learning can classify artifact in multi-signal vital sign monitoring data from Step-Down Unit (SDU) Patients*. Annual Congress of the European Society of Intensive Care Medicine 2014

SoRMA Nicholas Gisolfi, **Madalina Fiterau** and Artur Dubrawski. *Finding Gaps in Data to Guide Development of a Radiation Threat Adjudication System*. 2014 Symposium on Radiation Measurements and Applications

ESICM **Fiterau M**, Dubrawski A, Chen L, Hravnak M, Clermont G, Pinsky MR. *Automatic identification of artifacts in monitoring critically ill patients*. Annual Congress of the European Society of Intensive Care Medicine 2013

INFORMS **Madalina Fiterau** and Artur Dubrawski, *Retrieval of Simple and Informative Views of Complex Data*, INFORMS 2012 Annual Meeting, Phoenix, AZ, October 2012

iSDS **Madalina Fiterau**, Artur Dubrawski, Can Ye. *Real-time Adaptive Monitoring of Vital Signs for Clinical Alarm Preemption*. International Society for Disease Surveillance Annual Conference 2011

Demonstrations

IJCAI Donghan Wang, **Madalina Fiterau** and Artur Dubrawski, *VIPR: An Interactive Tool for Meaningful Visualization of High-Dimensional Data*. Demonstration at the International Joint Conference in Artificial Intelligence, IJCAI 2016

NIPS **Madalina Fiterau**, Artur Dubrawski, Donghan Wang. *An Interactive System for the Extraction of Meaningful Visualizations from High-Dimensional data*. Demonstration at the Neural Information Processing Systems Conference, NIPS 2015. URL: http://www.autonlab.org/ipe/

Refereed Workshop Contributions

MED-NIPS Ke Xiao, Heliodoro Tejeda, **Madalina Fiterau**, Jason Fries, James Priest and Christopher Ré, *Automated Classification of Aortic Valve Morphology from Phase-Contrast Cardiac MRI Using an Augmented CNN*, Medical Imaging Workshop at the Association of Neural Information Processing Systems Conference (MED-NIPS) 2017. Poster.

MED-NIPS Vincent Chen, Paroma Varma, **Madalina Fiterau**, Seung-Pyo Lee and James Priest and Christopher Ré, *Generating Training Labels for Cardiac Phase-Contrast MRI Images*, Medical Imaging Workshop at the Association of Neural Information Processing Systems Conference (MED-NIPS) 2017. Poster.

IML-NIPS Ferdinand Legros, **Madalina Fiterau**, Jennifer Hicks, Michael Schwartz and Scott Delp, *Interpretable Hamstring Surgery Outcome Prediction with Linear Continuous Bayesian Networks*. Interpretable Machine Learning Symposium at the Association of Neural Information Processing Systems Conference (IML-NIPS) 2017. Poster.

Madalina Fiterau, Jason Fries, Eni Halilaj, Nopphon Siranart, Suvrat Bhooshan and Christopher Ré. *Similarity-based LSTMs for Time Series Representation Learning in the Presence of Structured Covariates*. NIPS 2016 Recurrent Neural Networks Symposium, Barcelona, Spain, December 2016. Poster.

WiML **Madalina Fiterau**. *Learning representations from time series data through contextualized LSTMs*. Women in Machine Learning Workshop, Barcelona, Spain, December 2016. Oral Presentation.

Madalina Fiterau, Artur Dubrawski, Karen Chen, Donghan Wang, Gilles Clermont, Marilyn Hravnak and Michael R. Pinsky, *Detecting Artifacts in Clinical Alerts from Vital Signs*. *NIPS 2015 Workshop on Machine Learning in Healthcare*, Montreal, Quebec, Canada, December 2015. Paper and poster.

WiML **Madalina Fiterau** and Artur Dubrawski, *Theoretical Guarantees for the Construction of Informative Projection Ensembles using k-NN Classifiers*. Women in Machine Learning Workshop. Montreal, Canada, December 2015. Poster.

WiML **Madalina Fiterau** and Artur Dubrawski. *Reducing Annotation Effort through Projection Retrieval in an Active Learning Setting*. Women in Machine Learning Workshop, Montreal, Quebec, Canada, December 2014. Poster.

Madalina Fiterau and Artur Dubrawski. *Detecting Artifacts in Clinical Data through Projection Retrieval*. ICML Workshop on the Role of Machine Learning in Transforming Healthcare: Recent progress, Challenges and Opportunities, Atlanta, June 2013. Poster.

Madalina Fiterau and Artur Dubrawski. *An Application of Divergence Estimation to Projection Retrieval for Semisupervised Classification and Clustering*, ICML Workshop on Divergences and Divergence Learning. Atlanta, June 2013. Oral Presentation.

WiML **Madalina Fiterau** and Leila Wehbe. *Feature-Task Bi-clustering in Multitask Regression*. Women in Machine Learning Workshop, Lake Tahoe, Nevada, December 2012. Poster.

WiML **Madalina Fiterau** and Artur Dubrawski. *Explaining Datasets through High-Accuracy Regions*. Women in Machine Learning Workshop, Granada, Spain, December 2011. Oral presentation.

Technical Reports

Madalina Fiterau and Artur Dubrawski. *Explanation-Oriented Classification via Subspace Partitioning*. Spring 2012

Madalina Fiterau, Andrew Sheng, Venkat Senapati, Nagasrikanth Kallakuri, Robert Walzer. *Real-time Algorithmic Detection of a Landing Site using Sensors aboard a Lunar Lander*, Technical Report, Advanced Mobile Robot Development, CMU, 2011

Madalina Fiterau, Andrew Sheng. *Pinpoint Landing through Landscape Matching and Terrain Evaluation*, Technical Report, Mobile Robot Development, CMU, 2010

Manuscripts under review (available upon request)

Manoj Sharma, Sahej Randhawa, Jorge A. Banda, K. Farish Haydel, Kristopher Kapphahn, Donna Matheson, **Madalina Fiterau**, Hyatt Moore, Robyn L. Ball, Clete Kushida, Scott Delp, Dennis P. Wall, Thomas N. Robinson, Manisha Desai, *Statistical learning methods to identify non-wear periods from accelerometer data.*

Madalina Fiterau, Ruth Urner, Eni Halilaj and Artur Dubrawski, *Informative Projection Ensembles: Theory and Algorithms for Interpretable Models.*

Awards

2017	**LATTICE Symposium**, Invited Participant, Seattle, WA
2016	**Rising Stars Workshop**, Invited Participant, Carnegie Mellon University
2016	**Star Research Award at SCCM**, the Annual Congress of the Society of Critical Care Medicine, "Using expert review to calibrate semi-automated adjudication of vital sign alerts in StepDown Units", project in collaboration with Profs. Gilles Clermont, Marilyn Hravnak and Michael R. Pinsky at the University of Pittsburgh
2015	**Marr Prize for the best paper at ICCV**, the International Conference in Computer Vision for the paper "Deep Neural Decision Forests", joint work with Peter Kontschieder, Samuel Rota-Bulò and Antonio Criminisi from MSR Cambridge
2009	Carnegie Mellon University PhD Scholarship in Machine Learning
2007	**General Electric Scholar Leader Award**, 3-year scholarship, one of 15 in Romania
2005–2009	Study Scholarship, Politehnica University of Timisoara, awarded to top 10% of class

Invited Talks

2019

09.03.2019	DALI/ELLIS: Health Workshop at the Data, Learning and Inference. Topic: Long-term Alzheimer's Disease Forecasting by Predicting Latent Representations
07.24.2019	AI Next NYC. Topic: Hybrid Methods for the Integration of Heterogeneous Multimodal Biomedical Data
05.01.2019	UCL Gatsby. Topic: Hybrid Methods for the Integration of Heterogeneous Multimodal Biomedical Data. Host: Arthur Gretton
03.29.2019	MLconf New York City. Topic: Hybrid Machine Learning Methods for the Interpretation and Integration of Heterogeneous Multimodal Data.
03.14.2019	SAMSI Advances in Precision and Personalized Medicine. Topic: Interpretable and Interactive Models for Adjudication of Vital Signs Alerts in Step Down Units

2018 (Excluding job talks)

10.16.2018	Microsoft Research Cambridge, UK. Topic: Hybrid Machine Learning Methods for the Interpretation and Integration of Heterogeneous Multimodal Data. Host: Danielle Belgrave

2017

12.09.2017	Invited panelist at the Learning with Limited Data Workshop at NIPS. Panel topic: Limited Labeled Data in Medical Imaging.
09.26.2017	Oxford. Topic: Hybrid machine learning models for heterogeneous, multimodal data. Host: Mihaela van der Schaar

05.26.2017	University of Southern California. Topic: Learning representations from biomedical time series in the presence of structured information. Hosts: Dave Kale, Greg ver Steeg, Aram Galstyan
05.22.2017	University of Washington. Topic: Learning representations from biomedical time series in the presence of structured information. Host: Noah Smith

Teaching

Spring 2014	Teaching Assistant, CMU, Advanced Optimization and Randomized Methods (Alex Smola, Suvrit Sra)
	Taught lecture on Compressed Matrix Multiplications and recitations for the Advanced Optimization course.
Spring 2013	Teaching Assistant, CMU, Introduction to Machine Learning (Alex Smola, Barnabas Poczos)
Fall 2011	Teaching Assistant, CMU, Multimedia Databases and Data Mining (Christos Faloutsos)

Activities

2019	Organizer of the Narrative Understanding Workshop at NAACL, 6-7th of June, Minneapolis, MN
2018	Organizer of the NIPS Workshop on Machine Learning for Health, Montreal, Canada, 8th of December
2017	Organizer of the NIPS Workshop on Machine Learning for Health, Long Beach, CA, 8th of December
2016	Organizer of the NIPS Workshop on Machine Learning for Health, Barcelona, Spain, 9th of December
2014–2015	CMU Machine Learning Department Admissions Committee Member
2014	Organizer of the NIPS Workshop on Clinical Data Analysis, Genomics and Healthcare, Montreal, Canada, 12th of December
2014	Organizer of the Machine Learning Student Research Symposium, CMU
2013	Organizer of the NIPS Workshop on Clinical Data Analysis and Healthcare, Lake Tahoe, 10th of December
2013	Social Activities Organizer for the Machine Learning Department at CMU
2011	Volunteer at the Neural Information Processing Systems Conference
Area Chair	MLHC 2018, WiML 2018
Reviewing	AISTATS (2019); JMLR (2016, 2018); Machine Learning Journal 2017; NIPS (2014-2018); AAAI (2016, 2017); IJCAI (2016); AMIA (2016); MLHC (2016, 2017, 2018); ICML (2015, 2019); Sub-reviewer for ICML 2012, NIPS 2012.
Mentoring	Advised Auton Lab students Nick Gisolfi and Matt Barnes, resulting in publications at AAAI 2015 and SORMA 2014. Advised graduate students in the Mobilize Center – Ferdinand Legros, Suvrat Bhooshan, Charles Bournhonesque, resulting in publications at conferences and workshops on Machine Learning for Healthcare.

Computer skills

Programming Languages:.
- C/C++/C#, Java, Python, Visual Basic, SQL (MySQL, T-SQL, Oracle SQL)
- Basic knowledge of: Perl, Lisp, Prolog, FoxPro, VHDL, ASM

Scientific computing:.
- Matlab, R, NetworkSimulator2, MicroSim Pspice

Web design:.
- MS Visual Interdev, VS .NET, VB Script, JavaScript

Languages

Romanian	**Native**	
English	**Advanced**	*Cambridge Certificate in Advanced English – grade A*
French	**Beginner**	*Basic comprehension and usage*

References

Artur Dubrawski, Carnegie Mellon University, School of Computer Science (awd@cs.cmu.edu)

Christopher Ré, Stanford University, Computer Science Department (chrismre@cs.stanford.edu)

Scott Delp, Stanford University, Bioengineering Department (delp@stanford.edu)

Manisha Desai, Stanford University, Quantitative Sciences Unit, School of Medicine (manishad@stanford.edu)

Alex Smola, Carnegie Mellon University, School of Computer Science (alex@smola.org)

Peter Kontschieder, Mapillary Research (pkontschieder@mapillary.com)

Gilles Clermont, University of Pittsburgh, Department of Critical Care Medicine (cler@pitt.edu)

Other Interests

- Sci-Fi
- Computer Games
- Photography
- Image editing (Photoshop CS3)