

Byungkyu Kang

CONTACT INFORMATION	Byungkyu Kang, Ph.D., Senior Staff AI Scientist Intuit AI https://penguinkang.github.io/	+1-805-455-9856 penguinkang@gmail.com
RESEARCH INTERESTS	My research asks when large neural models are the right tool and when smaller, purpose-built ones are – spanning language-model fine-tuning and alignment, multimodal (speech + text) understanding, retrieval-augmented generation, and the evaluation methodology needed to trust these systems in production. This continues a longer-standing interest from my Ph.D. work in Intelligent User Interfaces (HCI + AI) and Explainable Artificial Intelligence (XAI) : how people come to understand, calibrate trust in, and productively collaborate with automated systems, whether that system is a credibility model for social-media content or a fine-tuned speech classifier serving live customer-support calls. Other areas: Natural Language Processing, Network Science, Recommender Systems, Social Computing. (Google Scholar Page)	
EDUCATION	University of California, Santa Barbara , California, USA Ph.D., Computer Science , March 2016 • Thesis Title: <i>Information Reliability on the Social Web—Models and Applications in Intelligent User Interfaces</i> • Committee: Tobias Höllerer (Advisor), Matthew Turk (UCSB) , Xifeng Yan (UCSB) and John O'Donovan (UCSB) M.S., Computer Science , June 2012 • Thesis Title: <i>An Analysis of Credibility in Microblogs</i> • Advisor: Tobias Höllerer Chung-ang University , Seoul, Korea Bachelor of Engineering, Electrical Electronics Engineering , February 2007	
PROFESSIONAL EXPERIENCE	Intuit - Intuit AI 7535 Torrey Santa Fe Rd, San Diego, CA, 92129 <i>Senior Staff AI Scientist</i>	Applied AI Research – Speech, Memory & Agentic Systems Jun 2025 - Present – Led a systematic architecture-search and fine-tuning study on real-time multimodal speech-intent classification, showing that replacing a costly frontier multimodal language model with lightweight frozen audio+text encoders fused through a compact (4.5M-parameter) classifier reaches the production accuracy target (macro $F_1 = 0.746 \pm 0.002$) at roughly 1,000x fewer parameters and a fraction of the latency – a counterintuitive finding on when generative language-model layers help vs. hurt discriminative tasks (see Publications). – Built a fine-tuned model self-assessment/confidence scorer (linear probe on a 3B model) reaching 0.801 ± 0.031 Pearson and 0.884 ± 0.024 AUROC correlation with LLM-judge quality (vs. 0.377 for a naive log-prob baseline), enabling automated production quality-gating. – Led a study replacing a costly frontier-LLM call in a real-time conversational memory/context-extraction service with a fine-tuned small language model (Qwen3-4B): the deployed configuration (weight-space model merging + constrained decoding) cut p95 serving latency roughly 8x while lifting structured-output reliability to 97.3%. – Led fine-tuning of a compact conversational-coaching model (Llama-3.2-3B) generating real-time coaching guidance for sales and customer-support agents during live conversations; deployed for end-to-end validation. – Built production-scale ML research infrastructure – container recipe management, distributed RL/evaluation orchestration across SageMaker, HyperPod and Kubernetes – including a

paved-path fine-tuning/RL library (auto-sft) with an automated-research-agent feature; diagnosed and fixed a GPU/storage bottleneck that had stalled a 20+ configuration evaluation pipeline for days.

- Architected the data half of the company's self-improving-model research program: an experience-store service, attribution converter, self-questioning task-synthesis pipeline, and a memory/topic-extraction small-model suite for enterprise conversational memory.
- Filed invention disclosures for multimodal workflow discovery and labeling, automated distillation of executable agent skills, a guidance-deduplication service, and the multimodal speech-intent architecture above.

Intuit - Intuit AI

Applied AI Research – Customer Support & Generative AI

7535 Torrey Santa Fe Rd, San Diego, CA, 92129

Jun 2021 - Jun 2025

Staff AI Scientist

- Led modeling work as the team evolved from classical NLP to generative AI: call-routing/keyword classification, then a 5-quarter production real-time knowledge-base recommendation feature with measurable handle-time and satisfaction impact, then an automatic call/case-note summarization model, then **Intuit Assist** – a retrieval-grounded generative-AI conversational assistant for product and tax experts – as part of a broader proprietary RAG-based GenAI agent platform (PSA & HelpGPT).
- Designed and led a real-time recommendation model routing customers to the right support channel/expert, a flagship company-wide initiative; also led the design of a real-time speech-to-intent model for contact-center agent assistance and its responsible-AI dataset-approval process for fine-tuning.
- Co-authored two internal research papers on guardrail-based large-language-model conversational advice systems; owned production on-call and root-cause analysis for the generative-AI assistant service.
- Filed invention disclosures for a knowledge-base recommendation method, a dynamic keyword tagger, personalized content sampling, a conversational contextualizer, and hallucination detection based on entity patterns.

Intuit - Intuit AI

Data Science Lab, Consumer Group

7535 Torrey Santa Fe Rd, San Diego, CA, 92129

Mar 2018 - Jun 2021

Senior AI Scientist

- Founding member of the company's first dedicated data-science team; built a question-answering model line (four iterations) using part-of-speech tagging and entity extraction for query understanding, and cart-abandonment prediction models used across multiple product lines.
- Retrained the company's domain-specific text-embedding model, improving query token coverage from 87% (word2vec baseline) to over 94%; root-caused a ~4.5% zero-result response rate via post-deployment health-check analysis.
- Built a call-routing ("call driver") classification system replacing manual/external tooling; took 4 models through full production certification (build, deployment, monitoring, and release pipelines).
- Developed ML models in production (batch and online) applied to over 50M customers; filed invention disclosures for a cart-abandonment model and a self-serve task-automation model.

Nokia Technologies

Analytics, Chief Technology Office (CTO)

200 S Mathilda Ave, Sunnyvale, CA, 94086

Sep 2016 - March 2018

Data Scientist

- Conduct research on big data analytics through statistical modeling, machine learning and visualization.
- Extract knowledge from both structured and unstructured data using data mining, and develop AI-based search and recommender systems.

IBM Thomas J. Watson Research Center Network Science and Machine Reasoning
Solutions

1101 Kitchawan Rd, Yorktown Heights, NY 10598

Jun 2016 - Sep 2016

Visiting Scholar

- Conducted research on graph mining and machine learning/reasoning.
- Conduct research on data visualization and intelligent user interfaces.

Mentor: Sabrina Lin

UCSB Imaging, Interaction, and Innovative Interfaces (FourEyes) Lab
University of California, Santa Barbara, CA 93106

Jan 2011 - May 2016

Research Assistant / Postdoctoral Researcher

- Modeling and predicting information quality on the Social Web (credibility, expertise, influence, etc)
- Interactive interface design for complex network analysis
- Interactive data visualization and visual analytics
- Ambient data visualization (collaboration with UCSB Media Arts and Technologies)
- Real-time hand pose recognition (computer vision)

Adobe Research Systems Technology Lab
321 Park Ave, San Jose, CA 95113

Jun 2014 - Sep 2014

Data Scientist Intern, Data Science and Visualization Research

- Designed an audience manager for social marketers that detects influential users from social media and provides a content-based landscape of the influential users through real-time web-based visualization interface.

Mentor: Nedim Lipka

Yahoo! Yahoo Labs
Diagonal 177, 08018 Barcelona, Catalunya, Spain

Jun 2013 - Sep 2013

Research Intern

- *Entity-Driven Exploratory and Serendipitous Search System* Constructed bundling algorithm and designed user interface and novel data visualization for entity-driven exploratory search. This project is under the EU project 'Linguistically Motivated Semantic Aggregation Engines (LiMoSINE)'.

Mentor: Mounia Lalmas

Korea Institute of Science and Technology Imaging Media Research Center
San 5-63, Hawolgok-dong, Seongbuk-gu, Seoul, South Korea

Jun 2012 - Aug 2012

Research Intern

- *Real-Time Hand Pose Recognition from a Single Depth Image* Conducted research on hand pose recognition using depth image based on object recognition approach using machine learning algorithms such as random forest decision tree and boosting algorithms.

Mentor: Hwasup Lim

IBM Global Technology Service
10 Gukjegeumyung-ro, Yeoeuido-dong, Yeongdeungpo, Seoul, Korea

Oct 2008 - Jun 2009

System Engineer

- Designed and implemented data centers and supported high availability for national financial companies (e.g. Korea Exchange and major banks).

SAMSUNG Information Technology R&D Center, Samsung SDS
7-29 Sincheon-dong, Songpa-gu, Seoul, South Korea

Jan 2007 - Oct 2008

Research Associate

- *Wireless Sensor Network (WSN)* Conducted a national pilot research project (with Korea Expressway Corp)

- *UI Design for Mobile Platforms* Participated in a formative research project for novel smartphone user interface and operating system.
- Participated in multiple pilot projects that design/implement RFID/WSN-based intelligent systems.

PUBLICATIONS

Patents and Patents Applications

- US Patent 11,907,657, “DYNAMICALLY EXTRACTING N-GRAMS FOR AUTOMATED VOCABULARY UPDATES.” Filed Jun 30, 2023; Granted Feb 20, 2024. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent 11,941,144, “METHODS AND SYSTEMS FOR AUTOMATIC CALL DATA GENERATION,” Jul 30, 2024. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent 12,067,976, “AUTOMATED SEARCH AND PRESENTATION COMPUTING SYSTEM.” Filed Sep 29, 2021; Granted Aug 20, 2024. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent Application, “METHOD AND SYSTEM FOR CONTEXT-SPECIFIC GENERATIVE MODEL ANSWERS FROM CONTEXT-SPECIFIC QUERIES.” Filed Dec 29, 2023. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent [number to verify – JK], “METHOD AND SYSTEM OF AUTOMATICALLY PREDICTING ANOMALIES IN ONLINE FORMS.” Filed Apr 30, 2021; Granted Jun 18, 2024. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent Application, “METHOD AND SYSTEM TO DETECT ABANDONMENT BEHAVIOR,” Aug 28, 2020. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent Application, “LEVERAGING GENERATIVE ARTIFICIAL INTELLIGENCE TO GENERATE STRATEGY INSIGHTS,” Oct 31, 2023. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent Application, “QUERY AUGMENTATION,” Jun 21, 2024. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent Application, “RESPONSE SYNTHESIS,” Jun 21, 2024. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent [number to verify – JK], “FRAMEWORK-AGNOSTIC SUMMARIZATION OF MULTI-CHANNEL COMMUNICATION.” Filed Sep 30, 2022; two granted-record dates on file (Oct 8, 2024 and May 21, 2024) with mutually inconsistent short-form numbers (1,783,107 / 1,989,500) – needs verification against the real grant number(s); may be one patent or two related ones. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent [number to verify – JK], “CALIBRATED RISK SCORING AND SAMPLING.” Filed Jul 30, 2021; Granted Jun 18, 2024 (recorded number 1,201,429 looks like a truncated/incorrect short-form – needs verification). Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent Application, “VARIABLE PROCESSING WITH MACHINE LEARNING USAGE PREDICTION,” Apr 11, 2024. Inventor: Byungkyu KANG. Assignee: Intuit Inc.
- US Patent Application 19/760,993 (IPR-2614542US), “GUIDANCE DEDUPLICATION SERVICE FOR REAL-TIME INTERACTIONS.” Filed Jul 31, 2026. Inventor: Byungkyu KANG. Assignee: Intuit Inc.

Manuscripts in Preparation

- **Byungkyu Kang**, “From Multimodal LLMs to Lightweight Classifiers: When Bypassing the Language Model Improves Speech Intent Detection.” Technical report, Intuit AI, 2026 (in preparation for external submission).

Papers Under Review

- **Byungkyu Kang**, Tobias Höllerer and John O’Donovan, “Evaluating personal metadata and credibility perception in social media streams,” *ACM Transactions on Interactive Intelligent Systems (TiiS)*
- Ilaria Bordino, Olivier Van Laere, Yelena Mejova, **Byungkyu Kang** and Mounia Lalmas, “Beyond Entities: Promoting Exploratory Search with Bundles,” *Information Retrieval*, Kluwer Academic Publishers

Peer Reviewed Papers

- Nafis Sadeq *et al.* (incl. **Byungkyu Kang**), “Mitigating Hallucination in Fictional Character Role-Play,” *Findings of EMNLP*, 2024.
- Nafis Sadeq *et al.* (incl. **Byungkyu Kang**), “Unsupervised Improvement of Factual Knowledge in Language Models,” *EACL*, 2023.
- **Byungkyu Kang**, Haleigh Wright, Tobias Höllerer, Ambuj Singh and John O’Donovan, “Through The Grapevine: A Comparison of News in Microblogs and Traditional Media,” *Lecture Notes in Social Networks*, Berlin, Springer-Verlag, 2017
- **Byungkyu Kang**, Nava Tintarev, Tobias Höllerer and John O’Donovan, “What am I not seeing? An Interactive Approach to Social Content Discovery in Microblogs,” 8th International Conference on Social Informatics (SocInfo 2016), Springer, 279-294p
- **Byungkyu Kang**, Shinsuke Nakajima, Tobias Höllerer and John O’Donovan, “A Cross-Cultural Analysis of Explanations for Product Reviews,” *ACM Conference on Recommender Systems (RecSys’16)*
- Yuuki Matsunami, Mayumi Ueda, Shinsuke Nakajima, Takeru Hashikami, Sunao Iwasaki, John O’Donovan, and **Byungkyu Kang**, “A Method for Automatic Scoring of Various Aspects of Cosmetic Item Review Texts based on Evaluation Expression Dictionary,” *The 24th International MultiConference of Engineers and Computer Scientists (IMECS 2016)*, Hong Kong, 16-18 March, 2016 (in Press)
- Nava Tintarev, **Byungkyu Kang**, Tobias Höllerer and John O’Donovan. “Inspection Mechanisms for Community-based Content Discovery in Microblogs,” *Joint Workshop on Interfaces and Human Decision Making in Recommender Systems (intRS)* held in conjunction with the 9th ACM Conference on Recommender Systems, Vienna, Austria, September 2015.
- **Byungkyu Kang**, Tobias Höllerer and John O’Donovan. “The Full Story: Automatic detection of unique news content in Microblogs”, *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*. Paris, France, August 2015.
- **Byungkyu Kang**, Tobias Höllerer and John O’Donovan. “Believe it or Not? Analyzing Information Credibility in Microblogs”, *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*. Paris, France, August 2015.

- Sujoy Sikdar, Sibel Adalı, Md Tanvir Amin, Tarek Abdelzaher, Kevin Chan, Jin-Hee Cho, **Byungkyu Kang**, John O'Donovan. "Finding True and Credible Information on Twitter", 17th International Conference of Information Fusion (IEEE FUSION), Salamanca, Spain, July 2014.
- John O'Donovan, **Byungkyu Kang**. "Competence Modeling in Twitter: Mapping Theory to Practice", International Conference on Social Computing (SocialCom 2014). Palo Alto, California., USA. May 27th-29th 2014
- **Byungkyu Kang**, George Legrady and Tobias Höllerer. TweetProbe: A Real-Time Microblog Stream Visualization Framework. IEEE VIS, Arts Program (VISAP), Atlanta, Georgia, October 2013.
- Sujoy Sikdar, **Byungkyu Kang**, John O'Donovan, Tobias Höllerer, Sibel Adalı, "Understanding Information Credibility on Twitter", IEEE/ASE SocialCom, Washington, DC, USA, 2013 **(Best paper)**
- Sujoy Sikdar, **Byungkyu Kang**, John O'Donovan, Tobias Höllerer, Sibel Adalı, "Cutting Through the Noise: Defining Ground Truth in Information Credibility on Twitter", ASE HUMAN JOURNAL 2.1, 2013
- James Schaffer, **Byungkyu Kang**, Tobias Höllerer, Hengchang Liu and John O'Donovan, "Interactive Interfaces for Complex Network Analysis: A QoI Perspective", IEEE International Conference on Pervasive Computing and Communications(PERCOM), 2013
- John O'Donovan, **Byungkyu Kang**, Greg Meyer, Tobias Höllerer and Sibel Adalı, "Credibility in Context: An Analysis of Feature Distributions in Twitter", IEEE SocialCom, Amsterdam, Netherlands, 2012
- **Byungkyu Kang**, John O'Donovan and Tobias Höllerer, "Modeling Topic Specific Credibility in Twitter", International Conference on Intelligent User Interfaces(IUI), Lisbon, Portugal, 2012
- **Byungkyu Kang**, John O'Donovan and Tobias Höllerer, "A Framework for Modeling Trust in Collaborative Ontologies", Proceedings of the sixth Graduate Student Workshop on Computing, 2011, UC Santa Barbara, 39-40.
- **Byungkyu Kang**, Mathieu Rodrigue, Tobias Höllerer and Hwasup Lim, "Poster: Real Time Hand Pose Recognition with Depth Sensors for Mixed Reality Interfaces", IEEE Symposium on 3D User Interfaces(3DUI), 2013.

Exhibitions

- **Byungkyu Kang**. "TweetProbe". In A. G. Forbes and L. Thorson, editors. [The IEEE VIS 2013 Art Show Catalog](#), pages 12-13. IEEE, 2013.
- George Legrady, **Byungkyu Kang**. "Korea - 2012", Data Curation, Museum of Art, Seoul National University, 23 May - 18 Aug, 2013
- Participation in "Making Visible the Invisible", Information visualization using Seattle public library transactions. Media Arts and Technology Program, UC Santa Barbara, 2013
- "[Media Arts and Technology End of Year Show](#)", Research on intelligent interfaces, data visualization, augmented reality and computer vision, UC Santa Barbara, 2011-2015

AWARDS AND FELLOWSHIPS	– Best Paper Award, IEEE/ASE International Conference on Social Computing (SocialCom 2013)	September, 2013
	– Doctoral Student Travel Grants, Academic Senate, The Regents of the University of California (\$1,100)	August, 2015
	– Graduate Student Award, National Science Foundation & ACM International Conference on Intelligent User Interfaces (IUI) (\$2,500)	February, 2012
	– Award of Excellence, Korea Expressway Corp (1 of 2 grantees) (An appreciation award for national pilot research projects)	September, 2007
	– Teaching Assistant Fellowship, Ministry of Knowledge and Economy of Korea	March, 2005 - December, 2006
	– Librarian scholarship, Central Library, Chung-ang University	2003 - 2006
TEACHING AND PRESENTATIONS	Lectures / Teaching Assistants	
	– Guest Lecturer, Network Science and Data Management (CS290D), UC Santa Barbara	Feb. 2016.
	– Guest Lecturer, Social Data Mining and Interactive Visualization, IGERT Summer Boot Camp , UC Santa Barbara	Sep. 2015.
	– Guest Lecturer, Visualizing Information (MAT 259), UCSB Covered data mining methods such as web/social media crawling, basic machine learning techniques, database operation, and both client and web-based data visualization techniques. (20 graduate students)	2014 – 2015
	– Teaching Assistant, Creative Problem Solving and Engineering Design, Chung-ang University	Mar. 2015–Dec. 2016
Invited Talks		
	– “An Advice For Those Who Face A Fork In The Road” UC San Diego, CA	Nov. 10. 2018
	– “Information Credibility and Interactive User Interfaces” Amazon Research, Seattle, WA	Oct. 19. 2017
	– “Information Credibility and Interactive User Interfaces” Universidad del Desarrollo, Santiago, Chile	Jul. 4. 2016
	– “Interactive Spatial Representations for Search and Recommendation Algorithms”, ThinkSpatial: The UCSB Brownbag Forum on Spatial Thinking , UC Santa Barbara	Nov. 17. 2015.
	– Adobe Internal Tech Demo, Adobe Research, Online webinar session that introduces an emerging or trending technology. “Mining and analyzing social big data using Apache Spark”	Sep, 2014
	– Early Academic Outreach Program (EAOP) University of California, Invited talk to high school students.	Mar 7, 2014
	– Demo at the invited talk, “Making Visible the Invisible”, UC Santa Barbara Library	May 7, 2013
SERVICE	Outreach	
	– Speaker to showcase Four Eyes Laboratory research to middle and high school students, UC Santa Barbara	2014
	– Speaker to motivate computer science studies at Middle Schools, Goleta CA	2014
	– Interviewee to showcase Four Eyes Laboratory research Duksung Women’s University, Seoul, Korea	2014
	– Meeting with prospective and admitted UCSB students	2013-2015

Steering Committee

- Web and Design Chair – [The 21st ACM International Conference on Intelligent User Interfaces \(IUI\)](#), March 7, 2016, Sonoma, California

Program Committee[†] and Reviewer

- ACM Transactions on Internet Technology (ToIT) (Reviewer), 2018
- ACM Transactions on Interactive Intelligent Systems (TIIS) (Inaugural Board of Distinguished Reviewer), 2017/2018
- The 23rd ACM International Conference on Intelligent User Interfaces (IUI, 2018)
- PLOS ONE Journal Review Board, 2017-2018
- the 7th International Workshop on Modeling Social Media at the 25th International World Wide Web Conference (WWW), 2016
- Social Network Analysis and Mining, Springer-Verlag, 2016
- The 25th International World Wide Web Conference (WWW), 2016
- Joint Workshop on Interfaces and Human Decision Making for Recommender Systems (IntRS) at the 9th ACM Conference on Recommender Systems, 2015[†]
- The 11th IEEE International Conference on Automatic Face and Gesture Recognition (FG), 2015
- Data-driven User Behavioral Modelling and Mining from Social Media Workshop (DUBMOD) at ACM Conference of International and Knowledge Management (CIKM), 2014[†]
- Turkish Journal of Electrical Engineering and Computer Sciences, The Scientific & Technological Research Council of Turkey, 2014[†]
- Posters & Demonstrations — IEEE Virtual Reality (VR), 2014
- Data-driven User Behavioral Modelling and Mining from Social Media Workshop (DUBMOD) at ACM Conference of International and Knowledge Management (CIKM), 2013[†]
- ASE/IEEE International Conference on Social Computing, 2013
- Posters & Demonstrations — The 18th ACM International Conference on Intelligent User Interfaces (IUI), March 19, 2013, Santa Monica, CA, USA
- The 7th Graduate Student Workshop on Computing (GSWC), 2012, UC Santa Barbara[†]

SKILLS

- *Programming Languages:* Python, Scala, JAVA, Javascript (AngularJs), R, C/C++, PHP, MATLAB, HTML5 (Canvas), Processing, ActionScript(FLEX).
- *IDEs:* Cursor, Windsurf, PyCharm, IntelliJ, VSCode, Vim
- *Databases and Distributed Systems* AWS, Apache Spark, Neo4J, OpenSearch, NoSQL, SQL, Hadoop
- *Specialized Tools and Libraries* TensorFlow, D3.js, Node.js, Express.js, p5.js, Flask, Twisted, Weka, NLTK, OpenCV, PBRT, ARToolkit, etc.
- *Platforms* Linux, MacOSX, Windows, AIX

LANGUAGES

- English, Korean, Spanish (intermediate)

EXTRA CURRICULAR ACTIVITIES

- *Volunteer Club*, Chung-ang University, Seoul, Korea 2000 - 2009
Community service for orphans(0-8 years old children) including education and whole caring since 2000
- *World Disaster Relief Organization*, Korea January, 2008 - May, 2012
Long-term Supporter and Volunteer

REFERENCES

Tobias Höllerer
Professor, Department of Computer Science
University of California, Santa Barbara

Website:<http://www.cs.ucsb.edu/~holl/>
Email:holl@cs.ucsb.edu

Matthew Turk
President and Professor of the Toyota Technological Institute at Chicago
Professor Emeritus, University of California, Santa Barbara
Website:<https://home.ttic.edu/~mturk/>
Email:president@ttic.edu

George Legrady
Professor, Media Arts & Technology Graduate Program (Chair) / Department of Art
University of California, Santa Barbara
Website:<http://www.mat.ucsb.edu/~g.legrady/>
Email:legrady@arts.ucsb.edu

John O'Donovan
Research Fellow, Department of Computer Science
University of California, Santa Barbara
Website:<http://cs.ucsb.edu/~jod/>
Email:jod@cs.ucsb.edu

Hwasup Lim
Senior Research Scientist, Imaging Media Research Center
Korea Institute of Science and Technology (KIST)
Website:<http://www.imrc.kist.re.kr/wiki/hslim/>
Email:hslim@imrc.kist.re.kr