Ana García del Molino, PhD

During my Ph.D. I worked on visual understanding and personalization for consumer video summarization. I aspire to design AI's to solve societal needs. My research interests also include video content analysis and generative models for image transformation.

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Professional Experience

BIGO
- ⌖ BIGO Tech., Singapore
- 🗓 April 2019-Today
- ⏱ Sr. AI Algorithm Engineer

DCNNs to predict PCA parameters for graphic 3D modeling.

GANs for face expression manipulation.

DCNN-based autoencoders and U-Nets for image and video refinement and style transfer.

gifs.com
- ⌖ gifs.com, Zurich
- 🗓 Summer 2017
- ⏱ Research Consultant

Use of a deep ranking model with personalizable input to customize the highlight detection in videos.

A*STAR
- ⌖ I2R, A*STAR, Singapore
- 🗓 2014-March 2019
- ⏱ Ph.D. Candidate
- 🚶 Supervised by Joo-Hwee Lim

Visual Understanding and Personalization for an Optimal Recollection Experience

Modeling of lifelog photo-stream sequences using LSTM networks, to detect daily activities and learn associations between life events.

Use of conditional random fields and probabilistic inference for interactive video summarization with diversity and query-driven objectives.

Use of image quality analysis and semantic retrieval techniques for query-based lifelog summarization.

- ⌖ National Inst. of Informatics, Tokyo
- 🗓 2013
- ⏱ Research Intern

Extension of the Bag of Words instance search technique by geometric coding and quantization error compensation.

Education and Skills

NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

PhD. in Cognitive Systems and Visual Computing
- ⌖ School of Computer Science and Engineering
- 🗓 2015-2019

UPC

BSc. and MSc. in Telecomm Engineering
- ⌖ TelecommBCN (ETSETB)
- 🗓 2008-2013

- 🇪🇸 Native Speaker
- 🎗 Native Speaker
- 🇬🇧 Fluent
- 🇫🇷 Fluent
- 🇩🇪 Beginner

🖥 Proficient in Matlab, Python, TensorFlow, OpenCV. Prior experience with Caffe, PyTorch, C#, C++, SQL.

⚓ I enjoy sailing, the cinema and the opera, playing board games... And I make earrings!

Make the most of your hobbies! I was a sailing instructor in Barcelona the summers of '08 to '12.

Commitment to the community. I am the leader of the LeanIn Circle "AI Singapore". As a student I was: Vice-President of the IEEE Barcelona Student Branch in 2011-2013; Member of the School's Evaluation Committee and Board; intern at the International Student Office.

Honors and Awards

Obra Social "La Caixa" 🗓 2014
Private fellowship to support postgraduate studies in North America and Asia-Pacific.

SINGA Scholarship 🗓 2015
Award given by A*STAR to international students to pursue their PhD at a Singapore University.

Selected Publications

📄 Ana Garcia del Molino, Joo-Hwee Lim, and Ah-Hwee Tan. 2018. Predicting Visual Context for Unsupervised Event Segmentation in Continuous Photo-streams. In *Proceedings of the 26th ACM international conference on Multimedia (MM '18)*.

📄 Ana Garcia del Molino and Michael Gygli. 2018. PHD-GIFs: Personalized Highlight Detection for Automatic GIF Creation. In *Proceedings of the 26th ACM international conference on Multimedia (MM '18)*.

📄 Ana Garcia del Molino, Xavier Boix, Joo-Hwee Lim, and Ah-Hwee Tan. 2017. Active Video Summarization: Customized Summaries via On-line Interaction with the User. In *AAAI Conference on Artificial Intelligence*.

📄 Ana Garcia del Molino, Cheston Tan, Joo-Hwee Lim, and Ah-Hwee Tan. 2017. Summarization of Egocentric Videos: A Comprehensive Survey. In *IEEE Transactions on Human-Machine Systems, 47(1)*.

(Check all other publications in my Scholar profile)