Ana García del Molino, PhD

Hi there! Hola!

Salut! Alo! Hello!

Hallo!

I'm Ana "

During my Ph.D. I worked on visual understanding and personalization for consumer video summarization.

I aspire to design Al's to solve societal needs.

My research interests also include video content analysis and generative models for image transformation.

garciadelmolino.github.io

GarciaDelMolino

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Professional Experience

BIGO

⊗ BIGO Tech., Singapore

🛱 April 2019-Today

© Sr. Al 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.

 $\mbox{VAE} \cdot \mbox{GAN} \cdot \mbox{Face Landmark Detection and Tracking} \cdot \mbox{Style} \\ \mbox{Transfer} \cdot \mbox{3D Rendering}$

Python \cdot TensorFlow \cdot PyTorch \cdot C# \cdot Blender

gifs.com

⊚ gifs.com, Zurich

Summer 2017

① Research Consultant

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

Action Classification · Recommendation Systems · Pattern Recognition · Action Understanding

 $Python \cdot TensorFlow \cdot DataFrames \cdot SQL \cdot Prototyping$



① Ph.D. Candidate

🛱 2014-March 2019

△ Supervised by Joo-Hwee Lim

Visual Understanding and Personalization for an Optimal Recollection Experience

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

 $\label{eq:object} Object\ Classification \cdot Activity\ Recognition \cdot Facial\ Recognition \cdot Transfer\ Learning \cdot Spatio-Temporal\ Learning\ with\ LSTM \cdot Episodic\ Memory$

 $\mathsf{MATLAB} \cdot \mathsf{Caffe} \cdot \mathsf{Python} \cdot \mathsf{TensorFlow} \cdot \mathsf{C++} \cdot \mathsf{Prototyping}$

National Inst. of Informatics, Tokyo

₿ 2013

© Research Intern

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

Obtect Recognition and Retrieval · SURF & SIFT Descriptors · Hamming Embedding · Bag of Words

 $\mathsf{MATLAB} \cdot \mathsf{C++} \cdot \mathsf{OpenCV}$

Education and Skills



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. Linux user. Git version controlling, etc.

 Φ 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 "Al 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

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SINGA Scholarship ☐ 2015

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

Private fellowship to support postgraduate studies in North America and Asia-Pacific.

Selected Publications

- (a) 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).*
- (a) Ana Garcia del Molino, Xavier Boix, Joo-Hwee Lim, and Ah-Hwee Tan. 2017. Active Video Summarization: Customized Summaries via Online 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).*

Other Publications

- 🗎 Ana Garcia del Molino, Bappaditya Mandal, Jie Lin, Joo Hwee Lim, Vigneshwaran Subbaraju, Vijay Chandrasekhar. 2017. VC-I2R@ ImageCLEF2017: Ensemble of Deep Learned Features for Lifelog Video Summarization. In *CLEF working notes*.
- 🗎 Qianli Xu, Vigneshwaran Subbaraju, Ana Garcia del Molino, Jie Lin, Fen Fang, Joo-Hwee Lim, Liyuan Li, Vijay Chandrasekhar. 2017. Visualizing Personal Lifelog Data for Deeper Insights at the *NTCIR-13 Lifelog-2 Task*.
- 🗎 Jie Lin, Ana Garcia del Molino, Qianli Xu, Fen Fang, Vigneshwaran Subbaraju, Joo-Hwee Lim, Liyuan Li, Vijay Chandrasekhar. 2017. VCI2R at the NTCIR-13 Lifelog-2 Lifelog Semantic Access Task.
- 🗎 Ana Garcia del Molino, Qianli Xu, Joo-Hwee Lim. 2016. Describing lifelogs with convolutional neural networks: A comparative study. In *Proceedings of the first Workshop on Lifelogging Tools and Applications.*
- Ana Garcia del Molino. 2016. First Person View Video Summarization Subject to the User Needs. In *Proceedings of the 24th ACM international conference on Multimedia (MM'16).*
- 🖹 Ana Garcia del Molino, Bappaditya Mandal, Liyuan Li, Lim Joo Hwee. 2015. Organizing and retrieving episodic memories from first person view. In *IEEE International Conference on Multimedia & Expo Workshops (ICMEW).*

(Check all my publications in my Scholar profile)