






# Ana García del Molino

*I am in my final year of PhD. at I2R and NTU, Singapore, currently working on Visual Memory and Summarization from First Person View content. My research interests are in the areas of computer vision, multimedia and personalization.*

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## PROFESSIONAL EXPERIENCE



**INSTITUTE FOR INFOCOMM RESEARCH, A\*STAR, Research Assistant** Aug 2014 - Today  
My research focuses on the integration of cognitive models into computer vision systems, towards efficient visual memory organization and retrieval.



**GIFS.COM, Research Consultant** Jun 2017 - Sept 2017  
The project included improving their automatic GIF generation engine by personalizing the experience. The new model generates different GIFs depending on the user's previous searches.



**NANYANG TECHNOLOGICAL UNIVERSITY, Teaching Assistant** Fall 2016  
Teacher at the Algorithms CE2001 module lab (Computer Science Yr. 2).



**PRICEWATERHOUSECOOPERS, Systems Auditor** Nov 2013 - Aug 2014  
IT inspection of systems and business processes and transactions for annual financial audits.



**NATIONAL INSTITUTE OF INFORMATICS, TOKYO, Research Intern** Mar 2013 - Sep 2013  
Participation in the TRECVID Instance Search Task 2013 while researching for my Master Thesis.



**UPC IMAGE AND VIDEO PROCESSING GROUP, Research Intern** Apr 2012 - Mar 2013  
Research in several projects for Mediapro, including a basketball tracking system.

## EDUCATION



**PHD. IN COGNITIVE SYSTEMS AND VISUAL COMPUTING** Jan 2015 - Today  
*School of Computer Science and Engineering, NTU, Singapore*  
GPA 4.63/5. Coursework requirements fulfilled: Cognitive Neuroscience & Embodied Intelligence; Human Computer Interaction; Digital Image Processing; Multimedia Information Management.



**BSC. AND MSC. IN TELECOMMUNICATIONS ENGINEERING** Sep 2008 - Sep 2013  
*TelecomBCN (ETSETB, UPC Barcelona Tech), Spain*  
Bachelor and Master Degree with specialty in Communications. Graduated in the 88th percentile.

## SKILLS & INTERESTS



Native Speaker



Native Speaker



Fluent (TOEFL 103/120)



Proficient (CEFR B2.2)



Beginner (CEFR A1)



Proficient: Matlab, Python, TensorFlow, OpenCV,  $\LaTeX$   
Prior experience: Caffe, C++, SQL, HTML, CSS  
Linux user. Basic knowledge in video and audio editors.



A few pleasures: sailing, baking, board games, the cinema and opera, Netflix (let's be honest). And I make earrings!



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

*Causes that matter.* I am part of the leadership of the Artificial Intelligence Singapore LeanIn Circle.

*Commitment to the community.* During my undergrad, I was part of several student associations:





Vice-President of the IEEE Barcelona Student Branch in 2011-2013;

Active member of the Student's Delegation; intern at the International Student Office;




Member of the student group at ETSETB's Evaluation Committee and Board.

## SELECTED PUBLICATIONS

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-  A. G. del Molino, J. H. Lim and A. H. Tan, "Predicting Visual Context for Unsupervised Event Segmentation in Continuous Photo-streams," in *Proceedings of ACM Multimedia conference*. ACM, Oct 2018
-  A. G. del Molino and M. Gygli, "PHD-GIFs: Personalized Highlight Detection for Automatic GIF Creation," in *Proceedings of ACM Multimedia conference*. ACM, Oct 2018
-  A. G. del Molino, X. Boix, J. H. Lim and A. H. Tan, "Active Video Summarization: Customized Summaries via On-line Interaction with the User," in *AAAI Conference on Artificial Intelligence*, Feb 2017.
-  A. G. del Molino, C. Tan, J. H. Lim and A. H. Tan, "Summarization of Egocentric Videos: A Comprehensive Survey," in *IEEE Transactions on Human-Machine Systems*, 47 (1), 65-76, Jan 2017.

## OTHER PUBLICATIONS

-  A. G. del Molino, B. Mandal, J. Lin, J. H. Lim, V. Subbaraju, and V. Chandrasekhar, "VC-I2R@ ImageCLEF2017: ensemble of deep learned features for lifelog video summarization," in *CLEF working notes*, pp. 11-14. Sep 2017.
-  A. G. del Molino, Q. Xu, and J. H. Lim, "Describing Lifelogs with Convolutional Neural Networks: A Comparative Study," in *Proceedings of the first Workshop on Lifelogging Tools and Applications*, pp. 39-44. ACM, 2016.
-  A. G. del Molino, B. Mandal, L. Li, and J. H. Lim, "Organizing and Retrieving Episodic Memories from First Person View," in *International Conference on Multimedia & Expo Workshops (ICMEW)*, pp. 1-6. IEEE, 2015.

## REFEREES

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### LIM JOO-HWEE

I2R, A\*STAR

My PhD. research supervisor  
[joohwee@i2r.a-star.edu.sg](mailto:joohwee@i2r.a-star.edu.sg)

### TAN AH-HWEE

SCSE, NTU

My PhD. academic supervisor  
[ASAHTan@ntu.edu.sg](mailto:ASAHTan@ntu.edu.sg)

### XAVI GIRO-I-NIETO

ETSETB, UPC

My MSc. supervisor and counselor  
[xavier.giro@upc.edu](mailto:xavier.giro@upc.edu)

### XAVIER BOIX

CBMM, MIT

Project collaborator  
[xboix@mit.edu](mailto:xboix@mit.edu)

## HONORS & AWARDS

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### SINGA SCHOLARSHIP

Jan 2015

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



### OBRA SOCIAL "LA CAIXA"

Apr 2015

Private fellowship to support postgraduate studies at universities in North America and the Asia-Pacific zone.