

# Efstratios Gavves

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PhD student at University of Amsterdam  
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## EDUCATION

2008.09 – present<sup>†</sup>, PhD. student at Intelligent Systems Lab Amsterdam  
Informatics Institute, University of Amsterdam, the Netherlands

2002.09 – 2007.09, Diploma of Electrical and Computer Engineering  
Aristotle University of Thessaloniki, Greece

## RESEARCH INTERESTS

My research interests include scene and object identification and understanding. I focus on the geometric and shape attributes of scenes and objects and I study how to use them in a computer vision and machine learning framework.

## RESEARCH EXPERIENCE

2008.09 - present: PhD student at Intelligent Systems Lab Amsterdam, The Netherlands

**Research topic:** Famous scene identification.

**Description:** Given a data set containing scene/landmark pictures, recognize pictures belonging to the same scene.

**Supervisor:** Dr. Cees Snoek

**Promoter:** Professor Dr. ir Arnold Smeulders

2007.10 - 2008.07: Center for Research and Technology - Hellas, Greece

**Research topic:** Hand movement tracking

**Description:** Extension of the prior Master thesis work

**Supervisor:** Dr. Sotiris Malassiotis

2007.01 - 2007.07: Center for Research and Technology - Hellas, Greece

**Diploma thesis:** Gesture detection with use of 3D camera

**Description:** Detecting and recognizing gestures using 3d sensory images

**Supervisor:** Dr. Sotiris Malassiotis, Dr. Michael Strintzis

**Grade:** 10.0 out of 10.0 (Excellent)

## PROJECT EXPERIENCE

**Project:** EngLab, a multi-platform simulation software

**Website:** <http://englab.bugfest.net/>

**Downloads:** 7000 (~70 per month)

**Position:** Main developer

**Project:** Implementation of microprocessor protocols for robotics project

**Position:** Implementation of PWM protocol for AVR microprocessor

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<sup>†</sup>Last updated: March 1, 2012

## TEACHING EXPERIENCE

**Course:** Information Visualization, Spring 2011  
**Position:** Teaching assistant

**Course:** Linear Algebra, Winter 2011  
**Position:** Teaching assistant

**Course:** Linear Algebra, Winter 2010  
**Position:** Teaching assistant

## TECHNICAL SKILLS

Expert knowledge of **Matlab**

### Toolboxes:

- Image processing: very good knowledge
- Neural Networks: very good knowledge
- Matlab GUI programming: very good knowledge

Expert knowledge of **C/C++**, very good knowledge of **Linux C++** programming(gcc, makefiles)

### Libraries:

- OpenCV: very good knowledge
- Qt: very good knowledge
- GSL: good knowledge
- CUDA: good knowledge

## PUBLICATIONS

1. **E. Gavves**, C.G.M. Snoek and A.W.M Smeulders, Convex Reduction of High-Dimensional Kernels for Visual Classification, in *IEEE Conference on Computer Vision and Pattern Recognition*, 2012.
2. X.Li, **E. Gavves**, C.G.M. Snoek, M. Worring and A.W.M Smeulders, Personalizing Automated Image Annotation using Cross-Entropy, in *ACM International Conference on Multimedia*, 2011.
3. **E. Gavves**, C.G.M. Snoek and A.W.M Smeulders, Visual synonyms for landmark image retrieval, in *Computer Vision and Image Understanding*, 2011.
4. **E. Gavves**, C.G.M. Snoek, Landmark Image Retrieval Using Visual Synonyms, in *ACM International Conference on Multimedia*, 2010.
5. C.G.M. Snoek, K.E.A. van de Sande, O. de Rooij, B. Huurnink, **E. Gavves**, D. Odijk, M. de Rijke, Th. Gevers, M. Worring, D.C. Koelma, A.W.M Smeulders, The MediaMill TRECVID 2010 Semantic Video Search Engine, in *TRECVID*, 2010.
6. **E. Gavves**, C.G.M. Snoek, and A.W.M Smeulders, Landmark Image Retrieval With Visual Synonyms, in *Advanced School of Computing and Imaging*, 2010.

## HONORS AND AWARDS

- **Best paper award: Efstratios Gavves**, Cees G.M. Snoek, and Arnold W.M Smeulders, Landmark Image Retrieval With Visual Synonyms, in *Advanced School of Computing and Imaging*, 2010

## REFERENCES

Prof. Dr. ir Arnold Smeulders (Promoter)  
University of Amsterdam  
email : ArnoldSmeulders@uva.nl

Dr. Cees Snoek (Supervisor)

University of Amsterdam  
email: cgmsnoek@uva.nl

Dr. Sotiris Malassiotis (Former supervisor)  
Center for Research and Technology - Hellas (CERTH)  
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