Prof. Olga Veksler

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Olga Veksler: Research Interests

- **Computer Vision** - extract anything useful from images, image sequences, video, etc.

- **Stereo Correspondence**

  ![Left Image](left_image.png) ![Right Image](right_image.png) ![Depth Map](depth_map.png)
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- **Image Segmentation**
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- **Image Segmentation**
Olga Veksler: Research Interests

- Computer graphics
- Digital Art
Olga Veksler: Graduate courses

- Fall: 9840a Learning and Computer Vision (Not offered in 2017)
- Winter: 9542b/442b Artificial Intelligence II
Fall: 9840a Learning and Computer Vision (Not offered in 2017)

- Machine Learning techniques that has been useful for Computer vision applications
  - Methods: Linear Classifiers, Neural Networks, SVM, boosting
  - Applications: mostly object recognition, some tracking, segmentation, image inpainting
- No textbook, we will read conference/journal papers
- Occasionally we will use videos
- One project, one paper presentation, in-class project presentation
- Take a look at the last year’s course (link from my web page)
Topics from

- Natural Language Processing (1/3): Spelling correction, POS tagging, information retrieval
- Computer Vision (1/3): Edge detection, segmentation, stereo, convolutional neural networks

Evaluation (tentative)

- 3 short quizzes, each worth 18% of the final mark
- 3 programming assignments, first one worth 16% and the other two are worth 15% each