

from the desk of

**YULIY
SCHWARTZBURG**
Юлий Шварцбург
ישראל שוורצבורג
ユリー・シュワルツバーグ

email

yuliy@kuroki.cc

Profile

Interested in human-computer interaction as it applies to interactive art and cultural awareness of technology.

Education

Doctor of Philosophy, Computer Science, Ecole Polytechnique Fédérale de Lausanne, Switzerland, 2009-

The Cooper Union for the Advancement of Science and Art, New York. NY —

Bachelor of Engineering, Electrical Engineering, Computer Engineering Track, 2004-2008

Cumulative GPA 3.8/4.0

Experience

Fulbright Fellow, University of Tsukuba, Graduate School of Systems and Information Engineering, Department of Intelligent Interaction Technologies, Yamashita Laboratory Tsukuba, Japan
2008-2009

As part of a Fulbright Fellowship to Japan, did research in Human Computer Interaction. Built a public display informed uniquely by Japanese culture that interacts with viewers based on their attention to the display.

Financial Software Developer Intern, Bloomberg L.P. New York, NY Summer 2008

Worked with the Multicast Library group. Wrote complete multicast file transfer program in C++, implementing a unique application-level protocol, and including many features such as resiliency to high data loss and low memory environments, push-based file sending, daemon functionality, and ability to send directory trees.

Financial Software Developer Intern, Bloomberg L.P. New York, NY Summer 2007

Worked with the Application Infrastructure group. Created graphical widgets to be used by other developers in financial software. Created DOM transformation engine and templates in Lua, C, and JavaScript to greatly increase speed and ease of creating and drawing graphs and charts.

Invited Researcher, Osaka University Graduate School of Engineering, Department of Adaptive Machine Systems, Hosoda Laboratory Osaka, Japan Summer 2006

Performed research in humanoid robotics. Experimented on the McKibben pneumatic actuator and on implementing a resistive sensor for the actuator. Involved programming for Linux and the Renesas H8 Microprocessor. Worked with graduate students and professors in robotics research, and presented work to assist with the laboratory goal of a humanlike walking robot.

Senior Operator, Cooper Union Computer Center New York, NY 2005-2008

Managed and supervised student operators and dealt with administrative tasks. Provided technical support to students and faculty; maintained and fixed computers; installed and upgraded software; worked closely with senior IT staff.

Skills

Computer Languages/Tools: C, C++, OpenCV, OpenFrameworks, MATLAB, UNIX, Linux, Lua, Java, JavaScript, PHP, AutoCAD, Adobe Photoshop, Macromedia Flash

Languages: Fluent in English, Russian; Knowledge of Hebrew, Japanese, French

Relevant Courses

Biometrics, A.I., Operating Systems, Signal Processing, DSP, Probability and Stochastic Processes

Honors

Fulbright Fellowship to Japan, 2008-2009; Dean's List: Fall 2004-Spring 2008;

Full Tuition Cooper Union Fellowship; Dale E. Zand Prize

Society of American Military Engineers Fellowship; Harry and Peggy Ploss Fellowship

Schering-Plough, Inc. National Merit Special Scholarship

Memberships

Eta Kappa Nu, Delta Chi Chapter, Former Vice-President

Tau Beta Pi, New York Iota Chapter

National Society of Collegiate Scholars, Cooper Union Chapter

Institute of Electrical and Electronics Engineers