Chris F. Angeloni

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# Education

**B.S.** Neuroscience, Lafayette College May 2012

*Magna cum laude -* GPA: 3.9

**B.A.** Studio Art, Lafayette College May 2012

*Magna cum laude -* GPA: 3.9

# Research & Work Experience

**Research Analyst**

Vanderbilt University, Nashville, TN Jun 2012 - present

Advisor: Dr. Frank Tong

* Extensive experience with fMRI data acquisition, preprocessing, and analysis
* Adept at retinotopic mapping of human primary visual cortex
* Experimental/stimulus design and programming
* Other lab management tasks: IRB management, assisting with grant submissions, subject recruitment, data storage and management, website design, etc.
* Skills: BrainVoyager, FSL, FreeSurfer, NeuroElf, MATLAB, R, Bash, HTML/CSS, SPSS, Excel, openGL, Arduino

**Neuroscience Honors Thesis**

Lafayette College, Easton, PA Sept 2011 - May 2012

Advisor: Dr. Lisa Gabel

* Studying the relationship between P300-based brain-computer interface (BCI) performance and visual attention ability
* Designed and proposed a correlational study
* Utilizes eye-tracking, electroencephalograpy, BCI 2000, Attention Network Test (ANT)
* Skills: MATLAB, BCI 2000, SPSS, electroencephalography

**Brain-Computer Interface Think-Tank**

Lafayette College, Easton, PA May - July 2011

Excel Research Advisors: Dr. Lisa Gabel & Dr. Yih-Choung Yu

* Developed a BCI system for communication and to play a simple memory game

# Honors and Awards

**William C. Rappolt ’67 and Walter Oechsle ’57 Neuroscience Prize April 2012**

Awarded to an outstanding senior based on scholarship

in the classroom and laboratory and service to the major,

college or community.

**Federal S.M.A.R.T. Grant** 2010 - 2012

Federal grant awarded to students in the natural sciences

who maintain a cumulative GPA greater than 3.0.

**Lafayette Marquis Scholar** 2008 - 2012

Awarded to students based on high school curriculum,

grades, class rank, and SAT scores.

**Lafayette Dean’s List** 2008 - 2012

Awarded to students every semester who maintain a

cumulative GPA greater than 3.5.

**Lafayette Grant** 2008 - 2012

Financial grant based on need and academic progress.

# Presentations & Publications

Lorenc, E.S., Pratte, M.S., Angeloni, C., Tong, F. (in press). Expertise for upright faces improves the precision but not the capacity of visual working memory. *Attention, Perception, & Psychophysics*.

**NEBEC Abstract Submission**

Angeloni, C. F., Salter, D., Corbit , V., Lorence, T., Yu, Y-C. & Gabel, L. A. (2012).  P300-based brain-computer interface memory game to improve motivation and performance.  *Proc. of Ann. NEBEC*, 38:35-36.

**BMES Poster Presentation**

Biomedical Engineering Society Conference, Oct. 13-15, 2011

“Experimental Design for P300-Based BCI Speller Implementation”

**Interdisciplinary Research Brownbag Presentation**

Lafayette College, Oct. 2011

“Developing a Brain-Computer Interface”

**Summer Excel Research Poster Session**

Lafayette College, Oct. 2011

“Experimental Design for P300-Based BCI Speller Implementation”

# Professional Memberships

Society for Neuroscience July 2013 - present

Vision Sciences Society Feb 2013 - present

Sigma Xi May 2012 - present

# Leadership Positions and Additional Projects

**Webmaster – Tong Lab Website**  Jun 2012 - present

Redesigned and implemented websites for the lab of

Frank Tong in iWeb and Dreamweaver.

<http://www.psy.vanderbilt.edu/tonglab/web/Home.html>

**Brain Blast Participant**  March 2013

Involved in setting up and manning an educational booth

at Brain Blast – a Vanderbilt Health outreach program.

**Assistant to Artist Ed Kerns**  Jan 2012 - May 2012

Aided in conception and execution of biologically-themed

paintings and art works for sale and display in galleries.

**Lafayette Association of Visual Artists**

*Vice President* 2011 - 2012

Aided in organizing the biannual Evening of

Paint as well as other club activities.

*Graphic Designer* 2010 - 2012

Designed posters, flyers and event invitations.

**Lafayette TED Club**

*Head of Public Relations* 2011 - 2012

In charge of event promotion and outreach.

*Graphic Designer* 2010 - 2012

Designed posters, t-shirts, and event invitations.

**O-Positive Festival Participant** November 2011

Designed artwork to be used during the O+ Festival,

an event which aims to provide free medical care

for artists with no health insurance.

# Skills

**Research**: fMRI, EEG, stimulus design/programming, advanced statistical analysis, Arduino microprocessor implementation, multi-voxel pattern analysis

**Programming**: MATLAB, R, Bash, HTML/CSS, openGL, Arduino

**Software**: Arduino, FSL, Freesurfer, BrainVoyager, NeuroElf, BCI2000, Excel, SPSS, MS Office, Adobe Dreamweaver, Adobe Illustrator, Adobe Photoshop, Adobe InDesign, Adobe Premier, iWeb, Final Cut Pro

# References

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**Dr. Lisa Gabel**, Assistant Professor

Psychology and Program in Neuroscience

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**Dr. Elaine Reynolds**, Associate Professor

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