

# CHRIS F. ANGELONI

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## EDUCATION

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- 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

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### 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, electroencephalography, 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

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<b>William C. Rappolt '67 and Walter Oechsle '57 Neuroscience Prize</b> Awarded to an outstanding senior based on scholarship in the classroom and laboratory and service to the major, college or community.	April 2012
<b>Federal S.M.A.R.T. Grant</b> Federal grant awarded to students in the natural sciences who maintain a cumulative GPA greater than 3.0.	2010 - 2012
<b>Lafayette Marquis Scholar</b> Awarded to students based on high school curriculum, grades, class rank, and SAT scores.	2008 - 2012
<b>Lafayette Dean's List</b> Awarded to students every semester who maintain a cumulative GPA greater than 3.5.	2008 - 2012
<b>Lafayette Grant</b> Financial grant based on need and academic progress.	2008 - 2012

## PRESENTATIONS & PUBLICATIONS

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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

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Society for Neuroscience	July 2013 - present
Vision Sciences Society	Feb 2013 - present
Sigma Xi	May 2012 - present

## LEADERSHIP POSITIONS AND ADDITIONAL PROJECTS

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<b>Webmaster – Tong Lab Website</b> Redesigned and implemented websites for the lab of Frank Tong in iWeb and Dreamweaver. <a href="http://www.psy.vanderbilt.edu/tonglab/web/Home.html">http://www.psy.vanderbilt.edu/tonglab/web/Home.html</a>	Jun 2012 - present
<b>Brain Blast Participant</b> Involved in setting up and manning an educational booth at Brain Blast – a Vanderbilt Health outreach program.	March 2013
<b>Assistant to Artist Ed Kerns</b> Aided in conception and execution of biologically-themed paintings and art works for sale and display in galleries.	Jan 2012 - May 2012
<b>Lafayette Association of Visual Artists</b> <i>Vice President</i> Aided in organizing the biannual Evening of Paint as well as other club activities.	2011 - 2012
<i>Graphic Designer</i> Designed posters, flyers and event invitations.	2010 - 2012
<b>Lafayette TED Club</b> <i>Head of Public Relations</i> In charge of event promotion and outreach.	2011 - 2012
<i>Graphic Designer</i> Designed posters, t-shirts, and event invitations.	2010 - 2012
<b>O-Positive Festival Participant</b> Designed artwork to be used during the O+ Festival, an event which aims to provide free medical care for artists with no health insurance.	November 2011

## SKILLS

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**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. Frank Tong**, Professor  
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Vanderbilt University  
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