

# 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

### 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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### **NEBEC Paper 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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Vision Sciences Society	Feb 2013 - present
Sigma Xi	May 2012 - present

## LEADERSHIP POSITIONS AND ADDITIONAL PROJECTS

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- 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

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**Research:** fMRI, EEG, stimulus design/programming, advanced statistical analysis

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

**Software:** 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  
Department of Psychology  
Vanderbilt University  
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