



Rebecca Clark

Karen Rebecca Clark ~ 864.423.7613 ~ rebeccaclark78@gmail.com

191 Central Road | Central SC 29630 | www.krclark.us | www.flasheconcepts.com

Education:

2016 Clemson University, Clemson SC

PhD student, learning science

(Research path working in collaborative environments with educational game design, online education and multimedia technologies).

2011 Clemson University, Clemson SC

Master of Science, biological science, GPR 4.0 out of 4.0

(Excelled in environmental engineering organic chemistry and mechanistic toxicology. Research experience in lipid biochemistry).

2009 Clemson University, Clemson SC

Bachelor of Science, biochemistry Cum Laude

(Excelled in 800 level electives: bioinorganic chemistry & environmental toxicology; supplemental coursework in computer science, research experience in lipid biochemistry)

2006 Greenville Technical College, Greenville SC

Associate of Science, biotechnology, GPR 4.0 out of 4.0

(Supplemental coursework in computer programming).

2000-2015 Online Courses & Webinars

Computer Science, Object Oriented Programming and Adobe Creative Suite Design Software (see online cv/resume for details: <http://www.rebeccaclark.us>).

Work Experience:

Feb 2012- May 2014 Clemson University, SC: Research Assistant

Research assistant in plant lipid biochemistry. Managed lab and conducted experiments in a manner which minimized time requirements of supervisor. Biochemical research routinely handling radioisotopes and chemicals with proper handling, storage, record keeping and disposal. Performed necessary mathematical computations and data analysis. Experienced in biochemical and molecular biology techniques to include electrophoresis gels, immunoassays, western blots, pcr, autoradiography, TLC, GC, UV/visible spectroscopy, enzyme kinetics, transmission electron microscopy and scanning electron microscopy. Calibrate & operate lab equipment. Experienced in safe & sterile handling of biological samples, primary tissue culture, and plant tissue culture. Read and critically analyze primary literature. Confer with other researchers & review literature to



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design experiments, collect and analyze data, make adjustments as needed. Prepare reports on scientific investigations, studies and data as well as produce visual representations of data via Excel, PowerPoint, Adobe design software, infographics or animations. Organize and communicate results to supervisor as well as instruct other employees in experimental techniques. Ensure lab is in compliance with federal safety guidelines with respect to MSDS, HAZMAT & radiation safety. Maintain inventory & purchase lab materials as needed. Trained fellow employees on protocols and equipment operations. Designed conference quality posters for science meetings. Assisted with writing of manuscripts for publication. Collected, analyzed and reported data to supervisor as well as created visual representations of the data and statistics for manuscripts. Taught biology and biochemistry as needed. (Ref. Sam Sparace smprc@clemson.edu)

Jan 2009 – Present Phoenix Rising Border Collie Rescue (Volunteer, Board of Directors). (5 hr. wk. /volunteer)

Designed, developed & maintain web site. Designed online database and DBMS using SQL and PHP for record keeping allowing greater collaboration between volunteers. Designed/developed bi-yearly fundraising campaigns resulting in over 20,000 dollars in charitable contributions over the last 3 yrs. Coordinate and organize events and transports.

Dec 2003- Jun 2004 Fennel Container, Mauldin SC (Dispatch / Inside Sales)

Dispatch drivers, inside sales. Remained calm under intense pressure to rapidly adjust to break downs and emergencies to re-route drivers while keeping drivers under DOT regulation hours and keeping customers serviced on time. Required great organizational, managerial and communicational skills.

Dec 2002-Dec 2003 Waste Industries, Easley SC (Inside & Outside Sales/Territory Sales Manager)

Managed sales territory, prepared and submitted oral and written reports on a monthly basis. Received sales award for 2003.

Feb 1998- Dec 2002 Kellett's Garbage (Kellett's Korner)

Recommended and implemented computer network to replace paper based bookkeeping system resulting in a more productive and profitable work environment. Recommended and implemented improvements to the billing system that generated a consistent cash flow and a more productive work flow for the business. Maintained collections, sales, and invoicing in a timely manner. Trained employees on computer operations. Completed payroll when needed to ensure employees received paychecks in a timely manner. (Ref. Ann or Tommy Kellett 864-288-9750)



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Jan 1993- Jan 1998 Kellett's Well Boring

Manager of water well division and manager of DOT / OSHA / HAZMAT / DEHEC / MSDS compliance for methane gas drilling division. Determined pricing of products and services to maximize profit and loss for the company. Stayed current and implemented necessary steps to ensure government regulation compliance. Ensured deadlines were met to prevent penalties on government jobs. Organized and completed government contracts / bids and accompanying reports to maintain compliance. Designed a database (with Microsoft Access) to maximize efficiency of record keeping and company operations. Took over company operations while the owner was out of the country to ensure payroll and accounts payables were complete in a timely manner. Invoiced government contracts, submitted bids, managed purchasing, inventory and pricing in order to maximize profits and increase awarded contracts. (Note: the owner for whom I worked is deceased, Gary Trotter was my immediate supervisor while there and can be a reference. Ref. Gary Trotter 864-918-8163).

Computer Skills:

Design Software: Adobe CS and CC (15+ yrs.):

- Photoshop
- Flash Pro
- Dreamweaver
- Illustrator
- Captivate
- Fireworks
- Lightroom
- Bridge
- Soundbooth
- InDesign
- After Effects (minimum experience)
- Premier Pro (minimum experience)
- Microsoft Publisher

Production Software (15+yrs):

- Microsoft Office
 - Word 2013
 - Excel 2013
 - Access 2013

- PowerPoint 2013
- Publisher
- Outlook

Statistical Software (3 yrs.):

- JMP
- SAS
- SPSS
- R

Programming Languages:

- CSS (10+ yrs.),
- CSS3 (3+ yrs.)
- HTML/XHTML (10+ yrs.)
- HTML5 (3+ yrs.)
- Sass (1 yr.)
- SQL (3+ yrs.)
- Java (2+ yrs.)
- Android (3+ yrs.)
- ActionScript 2.0 / 3.0 (10+ yrs.)



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- Minimum PHP (1+ yrs.)
- Moderate JavaScript (3+ yrs.)
- Moderate jQuery (2+ yrs.)
- Experience with Unix/Linux command line
- Experience with SSH
- Experience with Windows command line
- Experience with version control: Git/GitHub
- Capable of reading code & modifying

Typing: 72 – 78 words per minute (362-390 characters per minute)

Personal Skills:

Computational Thinker

Algorithmic Thinker

Creative

Motivated

Collaborative

Independent

Organized

Publications

Qian, M.; **Clark, K.R.** Games based learning and 21st century skills: a review of recent research. Submitted February 2016 *Computers in Human Behavior*.

Herro, D. & **Clark, KR.** (in press). An Academic Home for Play: Games as Unifying Influences in Higher Education. To be published in *On The Horizon*.

Qian, M.; **Clark, K.R.** Games based learning and 21st century skills: a review of recent research. Accepted October 2015 *AERA*.

Clark, K.R., Y. He, T. Young, K.F. Kleppinger-Sparace and S.A. Sparace. Characterization of fatty acid biosynthesis in plastids isolated from developing soybean somatic embryos. In preparation for *Lipids*.

He Y., T.E. Young, **K.R. Clark**, K.F. Kleppinger-Sparace, W.C. Bridges, **S.A. Sparace**. 2011. Developmental profile of storage reserve accumulation in soybean somatic embryos. *In Vitro Cellular and Developmental Biology* 47(6): 725-733.

Abstracts, Posters & Presentations at Conferences

Clark, K.R. 2015. My adventures as a high elf mage in Skyrim. Playful Learning Summit (May 16, 2015), Greenville, SC.

Clark, K.R., Y. He and S.A. Sparace. 2013. The Effects of Light on Storage Reserve Accumulation in Soybean Somatic Embryos and Plastidic Fatty Acid Biosynthesis. The 2013 Annual Meetings of



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the American Society of Plant Biologists (July 20 - 24), Providence, RI.

Sparace, S.A., **K.R. Clark**, Y. He, T.E. Young, Z. Li, H. Luo and K.F. Kleppinger- Sparace. 2012. Soybean Somatic Embryos and Plastids as a Model System for Lipid Metabolism. The 2012 Annual Meetings of the Southern Section of the American Society of Plant Biologists (March 3 – 5), Myrtle Beach, SC.

Sparace, S.A., **K.R. Clark**, Y. He, T.E. Young and K.F. Kleppinger-Sparace. 2011. Lipid Metabolism in Soybean Somatic Embryos and Plastids. The 24th Canadian Conference on Fats and Oils (September 26 – 27), Edmonton, Alberta, Canada.

Clark, K.R., Y. He, T.E. Young, K.F. Kleppinger-Sparace and S.A. Sparace. 2010. Fatty Acid Biosynthesis by Soybean Somatic Embryo Plastids. Annual Meetings of the American Society of Plant Biologists (July 31 – August 4), Montreal, Canada.

Clark, K.R., Y. He, T. Young, K.F. Kleppinger-Sparace and S.A. Sparace. 2010. Isolation of Plastids from Soybean Somatic Embryos for Studies of Lipid Biosynthesis. The 19th International Symposium on Plant Lipids (July 11-16), Cairns, Australia.

Clark, K.R., Sparace, S.A. 2009. Towards Developing a Method for the Isolation of Plastids from Soybean Somatic Embryos. Annual Meetings of the American Society of Plant Biologists, Honolulu, HI (July 18-22).

Sparace, S.A., He, Y., **Clark, K.R.**, Young, T.E. 2009. Developmental Profile of Storage Reserve Accumulation in Soybean Somatic Embryos. Annual Meetings of the Society for In Vitro Biology (June 6-10), Charleston, SC.

K.R. Clark, 2009. Development of a method for isolation of plastids from soybean somatic embryos. SC Life Undergraduate Research Program (April 4, 2009), Sumter, SC.

Invited Presentations

Sparace, S.A., **K.R. Clark**, Y. He, T.E. Young and K.F. Kleppinger-Sparace. 2011. Lipid Metabolism in Soybean Somatic Embryos and Plastids. The 24th Canadian Conference on Fats and Oils (September 26 – 27), Edmonton, Alberta, Canada.



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Awards

MacDonald Graduate Fellowship, 2015

Workshops

Assisted in teacher professional development workshop for games for learning: The Radix Endeavor. Playful Learning Summit, May 16, 2015. Greenville, SC

Web Design (examples)

- Flash-e-Concepts (flasheconcepts.com) 2014 html5 and CSS3
- Paw Paints (pawpaints.net) 2015 in progress mobile first responsive html5 and CSS3
- SCFAA (scfaa.org) 2014 mobile first responsive html5 and CSS3
- Fun Science 4 u (funscience4u.com) 2013 html and css
- Phoenix Rising Border Collie Rescue (prbcr.org) 2011 html, css, and sql with php for database and DBMS
- Grace Bible Church of Anderson SC (<http://wordoftruth.church/>) 2016 in progress mobile first responsive html5 and CSS3

Mobile Apps (Android)

- DNA Structure and Function on Google Play (educational app) ([link](#))
- The Garden of Eden on Google Play and Amazon (children's interactive Bible story and games) ([link](#))

Online CV/Resume

<http://www.KRClark.us>