

# Jessica Swade

Research Associate

## Education:

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- 05/2018     **Master of Science, Toxicology**, Colorado State University (CSU) – Fort Collins, CO  
Current GPA 3.769  
Related Courses: Pharmaceutical and Regulatory Toxicology, Fundamentals of Toxicology, Biosafety in Research Labs, Toxicological Pathology, Toxicological Mechanisms, Metabolism and Disposition of Toxic Agents, Cell and Molecular Toxicology Techniques, Independent Study – Computational Modeling Focus, Environmental Contaminant Modeling I, Forensic Toxicology, Human and Animal Disease, Group Study – Flow Cytometry
- 05/2016     **Bachelor of Science, Chemistry (Forensics)**, Appalachian State University – Boone, NC  
Minor: Criminal Justice  
Forensic Science Certificate

## Work History:

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- 05/2018 - Present     **Research Associate (08/2018 – Present)**, Affygit Solutions – Broomfield, CO
- Accurately interpret and report data from toxicological and clinical studies, safety data sheets, and other relevant sources that may be relevant to determining OELs and ADEs.
  - Promote thorough, in-depth, and exhaustive research efforts in a reportable manner through maintaining a tracking document to correspond with each individual research package created.
  - Suggest POD's, AF's, OEL's, and ADE's based on available reported information to be further reviewed by senior toxicology staff.
- Previous Position: Intern Toxicologist (05/2018 – 08/2018)**
- Perform quality control checks for documents including basic grammar and editing and corroboration of information.
  - Collaborate with senior toxicology staff to fulfill client needs or requests through assigned tasks.
  - Demonstrate an ability to perform in-depth research on various industry topics through early-stage document preparation, data entry, and document editing while maintaining FDA/EMA/ECHA and other industry guidelines.

- Understand the application of toxicological research in an occupational setting, as well as the importance of applying compound safety data to identify potential workplace or consumer hazards.

08/2017 – 12/2017

**Graduate Student Instructor, Colorado State University – Fort Collins, CO**

- Assisting in Pharmaceutical and Regulatory Toxicology and Toxicological Pathology courses by serving as an additional versatile resource for the professor and students.
- Responsible for managing the course webpage, using resources to create comprehensive reviews prior to exams, and demonstrate an in-depth knowledge of the topic when lecturing on course material.
- Educating toxicology students in various fields while providing the skill set to adapt to the constantly changing fields and industry

Spring 2017 –  
Fall 2017

**Graduate Student Research, Colorado State University – Fort Collins, CO**

- Using AnyLogic computational modeling software and literary research as high-throughput tools to develop a greater mechanistic understanding of poorly understood cellular pathways, pathway interactions, and their relationship to longevity.
- Learning the value of computational models for optimization of laboratory resources through in silico experimentation and utilizing collaboration during regular meetings and presentations to further understand this up-and-coming research method.

## Other Experience:

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06/2016 – Present

**Front Desk/ Sales Associate, Massage Envy – Fort Collins, CO**

- Provide excellent customer service by anticipating and exceeding wants and needs of clients • Act as an office administrator to create and execute organizational protocols in anticipation of future audits to avoid burdening upper management with administrative details.
- Take positive action to meet growing responsibility by adapting to various work conditions requiring the ability to transition into a managerial or nontraditional role.

**Promoted to Office Manager (as of February 2018), Fort Collins and Loveland, CO**

- Promote client/member retention through anticipating and exceeding wants and needs of clients

- Assist with loss prevention by performing monthly audits for clinic inventory and varying client account status.
- Encourage member retention and optimal clinic function by taking independent initiative to monitor client account status while effectively communicating with employees.
- Demonstrate excellent time management and thought prioritization of daily and monthly tasks such as auditing, processing clinic paperwork, and organizing clinic invoices and associated inventory.

06/2016 – 05/2017

**Community Coordinator**, Colorado State University – Fort Collins, CO

- Assist and promote the well-being of residents to ensure a safe and productive environment for students through programming and daily reporting of observations in the community.
- Strive to make more meaningful and challenging contributions to the betterment of the staff, residents, and entire Aggie Village community.

December and January **Administrative Assistant (Temporary)**, Salem One Inc. – Winston-Salem, NC

– 2015, '16, '17

- Compile necessary paperwork, organize, and verify accuracy of documentation for an annual company audit by the Forest Stewardship Council (FSC).
- Create and update FSC Audit training manual consistent with company formatting standards and use it to train future audit preparers.

## Publications:

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- Professional Data Reporting (adverse effects, toxicological study data, NOAEL/LOAEL/NOEL, etc.)
- Familiarity with FDA/EMA/Governing Body regulations
- Flow Cytometry
- Cell Sorting
- Gas Chromatography Mass Spectrometry (GC-MS)
- Gas Chromatography with Flame Ionization Detector (GC-FID)
- High Performance Liquid Chromatography (HPLC)
- Ion Chromatography (IC)
- Nuclear Magnetic Resonance (NMR) Spectroscopy
- Ultra-violet Visible (UV-VIS) Spectroscopy
- Infrared (IR) Spectroscopy
- Thin Layer Chromatography (TLC) • DNA-DNA Hybridization
- Colorimetric Assay

- DNA Isolation
- Polymerase Chain Reaction (PCR) Techniques
- ELISA
- Gel Electrophoresis
- Western Blot
- Northern Blot
- Southern Blot
- Liquid-Liquid Extraction
- Solid Phase Extraction
- Titration
- Spectrophotometry
- Computational Modeling (in silico experimentation)
- Dissecting Microscope
- Inverse Compound Microscope
- Scanning Electron Microscope (SEM)
- Microscope Slide Preparation (Permanent)
- Becke Line Method
- Pipetting
- Titration
- Calibration Curve Creation
- Laboratory notebook maintenance
- Various Spectral Interpretation/Analysis
- Various Analytical Instrument Software Programs
- Scientific/ Professional Document Quality Control
- MS Word, Excel, and Power Point

## **Professional Memberships:**

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Society of Toxicology (SOT) — Associate Member (Joined 2017)

*Previous Status: Student Member (June 2017 – December 2018)*

## **Professional Presentations:**

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- Computational Modeling – A Unique Toxicological Perspective – Affygility Solutions
- What's That Smell? – Inhalation Toxicity Testing and New Technology – Affygility Solutions
- The Research Process – The Methodical Creation of Fastrac Documents – Affygility Solutions