

2023 MU VRSP mentor profile form

<b>Mentor</b>	David D. Kline
<b>Departmental bio web page.</b>	<a href="https://cvm.missouri.edu/biomedical-sciences/faculty-and-staff/david-d-kline-phd/">https://cvm.missouri.edu/biomedical-sciences/faculty-and-staff/david-d-kline-phd/</a>
<b>Other relevant web pages, as applicable.</b> E.g., lab group/personal web page, Google Scholar/ORCID profiles, others	Lab: <a href="https://klinelab.dalton.missouri.edu/">https://klinelab.dalton.missouri.edu/</a>  Google Scholar: <a href="https://scholar.google.com/citations?user=HHvq1RwA AAAJ&amp;hl=en">https://scholar.google.com/citations?user=HHvq1RwA AAAJ&amp;hl=en</a>
<b>Research interests.</b>	The focus of the lab is on the neural control of blood pressure and breathing. We study the CNS circuits responsible for proper reflex responses in health and disease, especially during periods of low oxygen (e.g., high altitude, episodic breathing).
<b>Active projects.</b>	<ul style="list-style-type: none"> <li>• NIH-funded</li> <li>• Influence of forebrain-derived neuropeptides (oxytocin, CRH) on brainstem network function.</li> <li>• Role of reduced GABA inhibition in the brainstem.</li> <li>• Astrocyte – neuron chemical communication</li> <li>• How these neurochemicals influence breathing and blood pressure, the pathways and mechanisms is the primary focus.</li> </ul>
<b>Research team.</b> E.g., graduate students, post docs, technicians, other scholars	Diverse research team, including 2 research techs, 3 postdocs, and 2 undergraduates. Active collaborations with other faculty with similar interests.
<b>About you...</b> Education/training Personal information, as interested—e.g., hobbies, etc.	<ul style="list-style-type: none"> <li>• BA in Zoology from Miami Univ, OH.</li> <li>• PhD in Systems Physiology from Case Western Research Univ., OH</li> <li>• Postdoc training in Neuroscience from CWRU.</li> <li>• At MU and CVM since 2005.</li> <li>• Married with 2 kids in college. Enjoy working and hiking outdoors. Home to 1 very large lab-mastiff mix and 1 cat.</li> </ul>

**Mentor Profile**

I am available to mentor students in career and life decisions, even if they do not choose research.

Very Untrue 1 --- 2 --- 3 --- 4 --- 5 **Very True**

My students are/can be involved in the creation/development of their projects.

Very Untrue 1 --- 2 --- 3 --- 4 --- 5 **Very True**

I expect students to contribute to manuscripts/publications.

Very Untrue 1 --- 2 --- **3** --- 4 --- 5 Very True

Students have the option to continue to work on this project.

Very Untrue 1 --- 2 --- 3 --- 4 --- 5 <b>Very True</b>	
My students often work closely with a research team, e.g., lab tech or other students.	
Very Untrue 1 --- 2 --- 3 --- 4 --- 5 <b>Very True</b>	
I frequently touch base with my research team—e.g., students, technicians, etc.	
Very Untrue 1 --- 2 --- 3 --- 4 --- 5 <b>Very True</b>	
My mentoring style is very hands off.	
Very Untrue 1 --- 2 --- <b>3</b> --- 4 --- 5 Very True	
Current/active project profile & timeline, including clinical vs. basic science.	All projects are ongoing and involve the use of laboratory rodents (rats, transgenic mice). Projects can include a variety of techniques, from animal work, live cell recording/imaging, to molecular work.
Lab structure, if applicable.	My lab and office are adjacent to each other, and I am in the lab often to provide guidance. There are also experts in the lab. We do team science, where several individual projects contribute to an overall goal.
What does a typical day of research look like for VRSP scholars?	Details depend on project. In general, it will include reading literature, learning techniques and performing experiments 2-3 days/week, analysis of data, writing up results at end of project, poster presentation.
What does engagement look like for your lab/project?	Depends on scholar. If one wishes to drive the research (with consultation) that would be great. If one wishes to allow others (me) to drive the direction, that is also fine. Participation in other projects is encouraged. All-in-all, engagement can occur by many means.

## Example

<b>Mentor</b>	Tamara Hancock
<b>Departmental bio web page.</b>	<a href="http://vpbio.missouri.edu/faculty/Hancock_Tamara.html">http://vpbio.missouri.edu/faculty/Hancock_Tamara.html</a>
<b>Other relevant web pages, as applicable.</b> E.g., lab group/personal web page, Google Scholar/ORCID profiles, others	<a href="https://scholar.google.com/citations?user=OAJec6UAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=OAJec6UAAAAJ&amp;hl=en</a> (Google Scholar)
<b>Research interests.</b>	Professional socialization and identity development; well-being, mental health, & inclusion; qualitative methods
<b>Active projects.</b>	<ol style="list-style-type: none"> <li>1. Utilization focused evaluation of VRSP &amp; development of programmatic scaffolds for mentorship.</li> <li>2. Investigation of mental health prevalence, experiences, and affects in a sample of veterinarians from North America.</li> </ol>

<p><b>Research team.</b> E.g., graduate students, post docs, technicians, other scholars</p>	<ol style="list-style-type: none"> <li>1. Currently collaborating with Caitly Nelson (DVM candidate).</li> <li>2. I am collaborating with Dr. Kerry Karaffa on these data sets. Please note he is unable to ethically collaborate directly on projects with student involvement given his role in the CVM.</li> </ol>
<p><b>About you...</b> Education/training Personal information, as interested—e.g., hobbies, etc.</p>	<p>DVM, Iowa State University (2011) MS, Veterinary Pathobiology, University of Missouri (2014) Diplomate ACVP (clinical) (2014) PhD, Learning, Teaching, &amp; Curriculum, University of Missouri (2018)</p> <p>I am married and my husband and I have one child—a 6 year old who is in kindergarten here in Columbia.</p> <p>I have one 11 year old rat terrier mix and one 1 year old cat.</p> <p>I am a pretty active person—I love to run and just be moving outside. I love to read and cook/bake—I bake mostly breads but do occasionally venture into sweet treats. I like puzzles, play Pokemon GO and LEGO with my kid a lot.</p>

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<p>Current/active project profile &amp; timeline, including clinical vs. basic science.</p>	<p>My projects are all social science research. Currently working on an ongoing evaluation and improvement project with VRSP. Some elements are ongoing and some may be emergent. If interested project elements could be developed with scholar collaboration should these tasks arise.</p> <p>The veterinarian data set is in an early cursory analysis stage. The scholar could be involved with coding and interpretation of data.</p>
<p>Lab structure, if applicable.</p>	<p>N/A</p>
<p>What does a typical day of research look like for VRSP scholars?</p>	<p>Reading, thinking, writing, and digesting. May interview people or develop interview protocols. May transcribe or analyze data. May produce data visualizations or other public/VRSP facing materials.</p>
<p>What does engagement look like for your lab/project?</p>	<p>Contributing to the work—whatever that looks like for the scholar. I love to hear scholar ideas and perspectives and have them be a part of the research—a true collaboration. That said, it's most important for me to meet scholars where they are and help them find a space that is "engaged" for them.</p>