# 2022 MU VRSP mentor profile form

<table>
<thead>
<tr>
<th>Mentor</th>
<th>Dr. Ram Raghavan</th>
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<tbody>
<tr>
<td>Departmental bio web page.</td>
<td><a href="http://vphio.missouri.edu/faculty/Ram_Raghavan.htm">http://vphio.missouri.edu/faculty/Ram_Raghavan.htm</a></td>
</tr>
<tr>
<td>Other relevant web pages, as applicable. E.g., lab group/personal web page, Google Scholar/ORCiD profiles, others</td>
<td><a href="https://scholar.google.com/citations?user=CY_9BbcAAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=CY_9BbcAAAAAJ&amp;hl=en</a></td>
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<tr>
<td>Research interests.</td>
<td>Epidemiology, Disease ecology, Spatial analysis, Surveillance, Wildlife disease, Ticks, Bats</td>
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| Active projects.           | Spatial epidemiology of chronic wasting disease (USFWS 2020 - 2023)  
Coronavirus survey of bats (MDC 2021 – 2023) |
| Research team. E.g., graduate students, post docs, technicians, other scholars | Dr. Zoe Koestel  
Dr. Rosalie Ierardi  
Aleana Savage  
Isabella Richardson  
Joseph Mosely |
| About you…  
Education/training  
Personal information, as interested—e.g., hobbies, etc. | Epidemiologist, |

## 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 -X- 5 Very True

My students are/can be involved in the creation/development of their projects.  
Very Untrue 1 --- 2 --- 3 --- 4 -X- 5 Very True

I expect students to contribute to manuscripts/publications.  
Very Untrue 1 --- 2 --- 3 --- 4 -X- 5 Very True

Students have the option to continue to work on this project.  
Very Untrue 1 --- 2 --- 3 --- 4 -X- 5 Very True

My students often work closely with a research team, e.g., lab tech or other students.  
Very Untrue 1 --- 2 --- 3 --- 4 -X- 5 Very True

I frequently touch base with my research team—e.g., students, technicians, etc.  
Very Untrue 1 --- 2 --- 3 --- 4 -X- 5 Very True

My mentoring style is very hands off.  
Very Untrue 1 --- 2 -X- 3 --- 4 --- 5 Very True
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<th>Current/active project profile &amp; timeline, including clinical vs. basic science.</th>
<th>We are conducting chronic wasting disease surveillance and the modeling of its spatio-temporal patterns using R-Studio, ArcGIS and other software applications. We are conducting bat surveys and collecting biological samples for testing viruses using deep sequencing approaches. We are collecting ticks from different parts of the state and documenting pathogen prevalence. We are collecting snails from different parts of the state and documenting parasite prevalence, and modeling ecological niche using Maxent approaches.</th>
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<tr>
<td>Lab structure, if applicable.</td>
<td>BSL-1, mostly to handle field samples but also for preparing libraries for molecular analysis.</td>
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<tr>
<td>What does a typical day of research look like for VRSP scholars?</td>
<td>Analyze epidemiological data, interpret results.</td>
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<tr>
<td>What does engagement look like for your lab/project?</td>
<td>I emphasize reading scientific articles and discussions. I also encourage public speaking in front of colleagues and news media (print, radio, tele).</td>
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