## 2019 Graduating Seniors Awarded Departmental High or Highest Honors

<table>
<thead>
<tr>
<th>Student</th>
<th>Research Mentor</th>
<th>Honors</th>
<th>Senior Thesis</th>
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<tbody>
<tr>
<td>Sally Burke</td>
<td>Alexandra Navrotsky</td>
<td>Highest</td>
<td>Laser Ablation of Magnesium Silicate</td>
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<tr>
<td>Jesse Erdmann</td>
<td>Anita Olberholster</td>
<td>Highest</td>
<td>Yeast Application in Resolution of Smoke Taint</td>
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<tr>
<td>Rachel Franklin</td>
<td>Robert H. Rice</td>
<td>Highest</td>
<td>A Comparison of Pigmented and Non-pigmented Hair Shaft Proteomes: Expression Levels and Genetically Variant Peptide Detection</td>
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<tr>
<td>Virginia Johnson</td>
<td>Kristie Koski</td>
<td>Highest</td>
<td>Manganese Intercalated Two Dimensional Layered Materials at High Pressure: Mn-Si2Te3, Mn-MoSe2, Mn-Bi2Se3, and Mn-GeS</td>
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<tr>
<td>Niklas Kraemer</td>
<td>Mark Kurth</td>
<td>Highest</td>
<td>Photochemical Synthesis of Indazolones and Indazoles Modifications and Further Development of the Davis–Beirut Reaction</td>
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<tr>
<td>Adon Kwong</td>
<td>Annaliese Franz</td>
<td>High</td>
<td>Design and Synthesis of Indole-Based Hydroxamic Acids to Investigate as Selective HDAC Inhibitors</td>
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<tr>
<td>Yiyun Liu</td>
<td>Carlito Lebrilla</td>
<td>Highest</td>
<td>The Development of a Mass Spectrometry-Based Monosaccharide Composition Analysis Method for Foods</td>
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<tr>
<td>Brooke McMahon</td>
<td>David Goodin</td>
<td>Highest</td>
<td>Increasing Student Preparedness and Learning in the Laboratory: Redesigning the Laboratory Manual</td>
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<tr>
<td>Taruna Neelakantan</td>
<td>Igor Vorobyov</td>
<td>Highest</td>
<td>Elucidation of Chemical Structures - Activity Relationship for Anti-Cancer Properties of Amiloride Derivatives</td>
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<tr>
<td>Minh Nguyen</td>
<td>Lee-Ping Wang</td>
<td>Highest</td>
<td>Benchmarking Density Functional Approximations, Atomic Basis Sets, and Solvent Models in Predicting Thermodynamic Hydricities in Organic and Organometallic Species</td>
</tr>
<tr>
<td>Karina Targos</td>
<td>Annaliese Franz</td>
<td>Highest</td>
<td>Rh-Catalyzed Si-H Insertion Reaction of Diazoacetates for the Synthesis of Novel Organosiloxane Hybrid Nanomaterials Displaying Organic Functional Groups</td>
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<tr>
<td>Ashley Takeshita</td>
<td>Qizhi Gong</td>
<td>Highest</td>
<td>Pathogen Recognition of Myd88 in the Olfactory Neuroepithelium</td>
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<tr>
<td>Victoria Yee</td>
<td>Carlito Lebrilla</td>
<td>Highest</td>
<td>Quantification of Monocyte Chemoattractant Proteins Using High Resolution Extracted-Ion Chromatogram Mass Spectrometry</td>
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