



## Ashley P. Saunders

- Ph.D. Student in Chemistry, admitted Autumn 2020
- Masters Student in Chemistry, admitted Spring 2023
- Reader Grader for Chem 31A, Chemistry
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### SUPERVISORS

- Fang Liu

### Publications

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#### PUBLICATIONS

- **Temperature-Dependent Excitonic Light Manipulation with Atomically Thin Optical Elements.** *Nano letters*  
Guarneri, L., Li, Q., Bauer, T., Song, J. H., Saunders, A. P., Liu, F., Brongersma, M. L., van de Groep, J.  
2024
- **Millimeter-Scale Exfoliation of hBN with Tunable Flake Thickness for Scalable Encapsulation** *ACS APPLIED NANO MATERIALS*  
McKeown-Green, A. S., Zeng, H. J., Saunders, A. P., Li, J., Shi, J., Shen, Y., Pan, F., Hu, J., Dionne, J. A., Heinz, T. F., Wu, S. M., Zheng, F., Liu, et al  
2024
- **Hidden phonon highways promote photoinduced interlayer energy transfer in twisted transition metal dichalcogenide heterostructures.** *Science advances*  
Johnson, A. C., Georganas, J. D., Shen, X., Yao, H., Saunders, A. P., Zeng, H. J., Kim, H., Sood, A., Heinz, T. F., Lindenberg, A. M., Luo, D., da Jornada, F. H., Liu, et al  
2024; 10 (4): eadj8819
- **Photoluminescence upconversion in monolayer WSe<sub>2</sub> activated by plasmonic cavities through resonant excitation of dark excitons.** *Nature communications*  
Mueller, N. S., Arul, R., Kang, G., Saunders, A. P., Johnson, A. C., Sánchez-Iglesias, A., Hu, S., Jakob, L. A., Bar-David, J., de Nijs, B., Liz-Marzán, L. M., Liu, F., Baumberg, et al  
2023; 14 (1): 5726