

# Grayson Badgley

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## 2020/2021 Publications & Presentations

### Publications

1. Anderegg, W. R., Chegwidden, O. S., **Badgley, G.**, Trugman, A. T., Cullenward, D., Abatzoglou, J. T., Hicke, J. A., Freeman, J., Hamman, J. J., “Climate risks to carbon sequestration in US forests”. **bioRxiv** (2021).
2. **Badgley, G.**, Freeman, J., Hamman, J. J., Haya, B., Trugman, A. T., Anderegg, W. R., Cullenward, D., “Systematic over-crediting in California’s forest carbon offsets program”. **bioRxiv** (2021).
3. Anderegg, W. R., Trugman, A. T., **Badgley, G.**, Anderson, C. M., Bartuska, A., Ciais, P., Cullenward, D., Field, C. B., Freeman, J., Goetz, S. J., “Climate-driven risks to the climate mitigation potential of forests”. **Science** 368.6497 (2020).
4. Anderegg, W. R., Trugman, A. T., **Badgley, G.**, Konings, A. G., Shaw, J., “Divergent forest sensitivity to repeated extreme droughts”. **Nature Climate Change** 10.12 (2020), pp. 1091–1095.
5. Dechant, B., Ryu, Y., **Badgley, G.**, Köhler, P., Rascher, U., Migliavacca, M., Zhang, Y., Tagliabue, G., Guan, K., Rossini, M., “NIRvP: a robust structural proxy for sun-induced chlorophyll fluorescence and photosynthesis across scales”. **EarthArXiv** 10.12 (2020), pp. 1091–1095.
6. Whelan, M. E., Anderegg, L. D., **Badgley, G.**, Campbell, J. E., Commane, R., Frankenberg, C., Hilton, T. W., Kuai, L., Parazoo, N., Shiga, Y., “Scientific Communities Striving for a Common Cause: Innovations in Carbon Cycle Science”. **Bulletin of the American Meteorological Society** 101.9 (2020), E1537–E1543.

### Press Coverage

Lisa Song, James Temple. “The climate solution actually adding millions of tons of CO<sub>2</sub> into the atmosphere.” **Propublica**. 29 April 2021.

<https://www.technologyreview.com/2021/04/29/1017811/california-climate-policy-carbon-credits-cause-co2-pollution/>. Story reappeared in: InsideClimate News

Lisa Song, James Temple. “A nonprofit promised to preserve wildlife. Then it made millions claiming it could cut down trees.” **Propublica**. 10 May 2021.

<https://www.propublica.org/article/a-nonprofit-promised-to-preserve-wildlife-then-it-made-millions-claiming-it-could-cut-down-trees>. Story reappeared in: High Country News, KQED, The Boston Globe

James Temple. “How Amazon’s offsets could exaggerate its progress toward “net zero” emissions.” **MIT Technology Review**. 2 November 2020.  
<https://www.technologyreview.com/2020/11/02/1011500/amazon-forestry-offsets-net-zero-carbon-climate-change/>.

James Temple. “Why we can’t count on carbon-sucking farms to slow climate change.” **MIT Technology Review**. 3 June 2020.  
<https://www.technologyreview.com/2020/06/03/1002484/why-we-cant-count-on-carbon-sucking-farms-to-slow-climate-change/>.

## Invited Presentations

“What canopy structure can tell us about plant productivity.” Cary Institute of Ecosystem Studies.

“What canopy structure can tell us about plant productivity.” NASA Jet Propulsion Lab.

“Using measurements of canopy structure to quantify the terrestrial carbon cycle.” NOAA Virtual Global Monitoring Annual Conference (eGMAC).