

Climate and Carbon Sciences Program  
Earth Sciences Division  
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## RESEARCH

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### Postdoc Research Fellow

*Lawrence Berkeley National Laboratory* *October 2012 - present*  
Earth Sciences Division  
Research: "Arctic Ecosystems-Climate Feedbacks: Fieldwork and Modeling"  
Advisor: Margaret Torn

*University of California, Berkeley* *October 2009 – October 2012*  
Department of Environmental Science, Policy and Management  
Research: "Ecosystems respond to drought conditions: the combined effect of maximum rooting depth and precipitation pattern on plant productivity"  
Advisor: Dennis Baldocchi

## EDUCATION

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- Ph.D.** Weizmann Institute of Science, Israel  
Department of Environmental Science and Energy Research. Advisor: Dan Yakir  
Thesis: "Partitioning of the evapotranspiration flux in a semi-arid forest".
- M.A.** Hebrew University, Jerusalem, Israel  
Department of Geography. Advisor: Aaron Yair  
Honors thesis: "Spatio-temporal scaling of rainfall-runoff relationships in a small watershed".
- B.Sc.** Hebrew University, Jerusalem, Israel  
Institute of Earth Sciences  
Major: Geology ♦ Minor: The history, philosophy and sociology of science

## GRANTS, HONORS AND AWARDS

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- NSF – FORCAST training grant
- United States – Israel Binational Agricultural Research and Development Fund (BARD) Postdoc Fellowship Program
- American Geophysical Union student travel grant
- Rieger Fellow in Environmental Studies, Israel
- Israeli Society of Ecology and Environmental Sciences best student presentation
- Academic Excellence – Research Student Fellowship, Hebrew University

**PUBLICATIONS IN REVIEW OR EDITING**

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11. **Raz Yaseef, N.**, Franz, T.E., Sonnentag, O., Kobayashi, H., Ma, S., Verfaillie, J., Chen, J., Shuttleworth, J., Baldocchi, D. What makes the ecosystem tick: challenges in revealing water controls over ecosystem fluxes in a semi-arid oak-grass savanna. *In editing*.
10. **Raz Yaseef, N.**, Fischer M.L., Billesbach D.P., Biraud, S.C., Gunter S.A., Bradford, J.A., Torn, M.S., 2013. Drought Sensitivity of Three U.S. Southern Plains Ecosystems. *Submitted*.

**PUBLICATIONS**

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9. Koteen, L., **Raz Yaseef, N.**, Baldocchi, D.D. Fine root biomass and soil organic carbon scale with tree size and age in a California oak savanna. *Accepted with minor revisions to Ecohydrology, September 2013*.
8. Ungar, E., Rotenberg, E., **Raz Yaseef, N.**, Cohen, S., Yakir, D., Schiller, G., 2013. Transpiration and annual water balance of Aleppo pine in a semiarid region: Implications for forest management. *Forest Ecology and Management* 298: 39-51.
7. **Raz Yaseef, N.**, Koteen, L., Baldocchi, D.D., 2013. Coarse root distribution of a semi-arid oak savanna estimated with ground penetrating radar. *Journal of Geophysical Research – Biogeosciences* 118: 1-13.
6. Klein, T., Rotenberg, E., Cohen-Hilaleh, E., **Raz Yaseef, N.**, Tatarinov, F., Preisler, Y., Ogée, J., Cohen, S., Yakir, D., 2012. Quantifying transpirable soil water and its relations to tree water use dynamics in a water-limited pine forest. *Ecohydrology*, DOI: 10.1002/eco.136 .
5. **Raz Yaseef, N.**, Yakir, D., Schiller, G., Cohen, S., 2012. Dynamics of evapotranspiration partitioning in a semi-arid forest as affected by temporal rainfall patterns. *Agricultural and Forest Meteorology* 157: 77-85.
4. **Raz Yaseef, N.**, Rotenberg, E., Yakir, D., 2010. Effects of spatial variations in soil evaporation caused by tree shading on water flux partitioning in a semi-arid pine forest. *Agricultural and Forest Meteorology* 150 (3): 454-462.
3. **Raz Yaseef, N.**, Yakir, D., Rotenberg, E., Schiller, G., Cohen, S., 2010. Ecohydrology of a semi-arid forest: partitioning among water balance components and its implications for predicted precipitation changes. *Ecohydrology* 3: 143-154.
2. Grunzweig, J.M., Hemming, D., Maseyk, K. , Lin, T.B., Rotenberg, E., **Raz Yaseef, N.**, Falloon, P.D., Yakir, D., 2009. Water limitation to soil CO<sub>2</sub> efflux in a pine forest at the semiarid "timberline". *Journal of Geophysical Research – Biogeosciences* 114, G03008.
1. Yair, A., **Raz Yaseef, N.**, 2004. Hydrological processes in a small arid catchment: scale effects of rainfall and slope length. *Geomorphology* 61: 155-169.

### INVITED TALKS AND SEMINARS

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- Raz Yaseef, N.**, 2013. Coarse root distribution of a semi-arid oak Savanna estimated with ground penetrating radar. American Geophysical Union of the Americas, Cancun, Mexico.
- Raz Yaseef, N.**, 2012. Coarse root distribution of a semi-arid oak Savanna estimated with ground penetrating radar. Department seminar, School of Natural Resources and the Environment, University of Arizona, Tucson, Arizona, USA.
- Raz Yaseef, N.**, 2012. Dynamics of ET partitioning in a semi-arid forest as affected by temporal rainfall patterns. Ecological Society of America Annual Meeting, Portland, Oregon, USA.
- Raz Yaseef, N.**, 2011. Ecosystem sensitivity to climate change: Rethinking the hydrological balance. Department seminar, Soil and Water Sciences, Robert H. Smith Faculty of Agriculture, Food and Environment, Rehovot, Israel.

### SEMINARS

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- Raz Yaseef, N.**, 2013. Ecosystem sensitivity to climate change. Agricultural Research Organization, Beit Dagan, Israel.
- Raz Yaseef, N.**, 2012. Coarse root distribution of a semi-arid oak Savanna estimated with ground penetrating radar. Department seminar, Department of Hydrology and Water Resources, University of Arizona, Tucson, Arizona, USA.
- Raz Yaseef, N.**, 2012. Dynamics of ET partitioning in a semi-arid forest as affected by temporal rainfall patterns. Department seminar, International Arctic Research Center, University of Alaska, Fairbanks, Alaska, USA.
- Raz Yaseef, N.**, 2012. Estimating tree root biomass with a Ground Penetrating Radar. Department of Environmental Science, Energy and Management, University of California, Berkeley, California, USA.

### SIMPOSIA PRESENTATION

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- Raz Yaseef, N.**, Fischer M.L., Billesbach D.P., Biraud, S.C., Gunter S.A., Bradford, J.A., Torn, M.S., 2013. Drought Sensitivity of Three U.S. Southern Plains Ecosystems. *To be held*, American Geophysical Union Meeting, to be held in San Francisco, California, USA (oral).
- Raz Yaseef, N.**, Koteen, L., Verfaillie, J. and Baldocchi, D., 2012. Estimating tree root biomass with a Ground Penetrating Radar. American Geophysical Union Meeting, San Francisco, California, USA (poster).
- Raz Yaseef, N.**, Sonnentag, O., Kobayashi, H. and Baldocchi, D.D., 2011. Seasonality and interannual variability of ET and its partitioning in a semi-arid oak-savanna forest: what can modeled results tell us on how well we understand ecosystem functioning? Fluxnet-Specnet Workshop, Berkeley, California, USA (poster).
- Koteen, L., **Raz Yaseef, N.**, Verfaillie, J. and Baldocchi, D., 2011. Sampling and analyzing the root system from a blue oak savanna in the Sierra Nevada foothills using conventional sampling

and ground penetrating radar (GPR). American Geophysical Union Meeting, San Francisco, California, USA (poster).

**Raz Yaseef, N.**, Sonnentag, O., Kobayashi, H. and Baldocchi, D.D., 2010. Inter-annual variability of evapotranspiration in a semi-arid oak-savanna ecosystem: measured and modeled buffering to precipitation changes. American Geophysical Union Meeting, San Francisco, California, USA (oral).

**Raz Yaseef, N.** and Yakir, D., 2009. Variations in Soil Evaporation and its Contribution to the Water Balance of a Semi-arid Forest, American Geophysical Union Meeting, San Francisco, California, USA (poster).

**Raz Yaseef, N.** and Yakir, D., 2008. Ecohydrological Aspects of a Semi-Arid Forest, The Israeli Society of Ecology and Environmental Sciences Annual Assembly, Technion – Israel Institute of Technology, Haifa, Israel (oral).

**Raz Yaseef, N.** and Yakir D., 2008. Effects of Precipitation Patterns on Productivity of a Semi-arid Forest, American Geophysical Union Meeting, San Francisco, California, USA (poster).

**Raz Yaseef, N.** and Yakir D., 2008. Ecohydrological Controls over ET Partitioning at a Semi-Arid Forest, European Geophysical Union General Assembly, Vienna, Austria (oral).

**Raz Yaseef, N.**, Yakir D. and Schiller, G., 2007. The effect of rain and radiation on the water budget of a semi-arid forest. The Israeli Geographical Association Annual Assembly, Weizmann Institute of Science, Rehovot, Israel (poster).

**Raz Yaseef, N.** and Yakir D., 2006. Partitioning evapotranspiration: variations in the relative contribution of soil evaporation. European Geophysical Union General Assembly, Vienna, Austria (oral).

**Raz Yaseef, N.**, Maseyk, K. and Yakir, D., 2005. Forest floor evaporation: a novel chamber-based technique to measure soil vapor exchange at a semi-arid forest. The Israeli Society of Ecology and Environmental Sciences Annual Meeting, Israel (poster).

**Raz Yaseef, N.** and Yair, A., 1998. Spatial scaling of rainfall – runoff relationships in a small arid catchment. Israel Geomorphological Research Group Annual Conference, Eilat, Israel (oral).