

Associate Professor. Ram Pandit  
UWA School of Agriculture and Environment  
School of Biological Sciences  
**Type of address: Postal address.**  
The University of Western Australia (M089), 35 Stirling Highway,  
6009  
Perth  
Western Australia  
Australia  
**Type of address: Postal address.**  
The University of Western Australia (M578), 35 Stirling Highway,  
6009  
Perth  
Western Australia  
Australia  
**Email:** ram.pandit@wabsi.org.au  
**Phone:** 6488 1353



## Biography

Being grown up in a Nepalese village, I have experienced closely the role of forests on subsistence economy, which partly led me to pursue undergraduate study in Forestry Sciences from Tribhuvan University (Institute of Forestry) in Nepal. Upon completion of BSc in 1994, I initially worked as an Agro-ecological Research Site Coordinator at Lumle Agricultural Research Centre, a centre funded by the then ODA of the British Government, for 3 years (1995-1998) and later worked with the Government of Nepal (Department of Forests) as a Forester for 3 years (1998-2001). The Fulbright Scholarship in 2001 took me to the State University of New York, College of Environmental Sciences and Forestry to pursue Master's degree in Forest Resources Management. As a part of Master's thesis I conducted a research to examine the impacts of Community Forestry on forest products supply and environmental outcomes among selected community forests in Nepal. A PhD research assistantship offer from Auburn University to work on 'human dimensions of species fragility' took me to Auburn in 2003 for an Applied Economics PhD, which I completed in 2007. With the change in focus from forest resource management to applied economics, I studied economics and statistics while pursuing PhD that eventually led me to earn MS in Economics and MS in Probability and Statistics degrees. In my PhD research, I analysed socio-economic determinants of threatened species among countries using spatial econometric techniques. Then prior to joining UWA in 2009, I spent 2 years at Auburn as a Postdoctoral Fellow working on an urban forestry project that examined the economic impact of tree shade on energy consumption in urban homes.

## Qualifications

Applied Economics (Forestry), PhD, Auburn University  
15 Aug 2003 → 4 Aug 2007  
Award Date: 4 Aug 2007

Economics, MS, Auburn University  
15 Aug 2003 → 11 Dec 2006  
Award Date: 11 Dec 2006

Probability and Statistics, MS, Auburn University  
15 Aug 2003 → 11 May 2006  
Award Date: 11 May 2006

Forest Resources Management, MS, SUNY College of Environmental Science and Forestry  
16 Aug 2001 → 31 Jul 2003  
Award Date: 3 Aug 2003

Forestry Sciences, BSc, Tribhuvan University  
1 Dec 1991 → 31 Dec 1994  
Award Date: 18 Apr 1995

## Employment

**Associate Professor**  
UWA School of Agriculture and Environment  
22 Jun 2009 → present

**Associate Professor**  
School of Biological Sciences  
1 Mar 2024 → present

## Visiting Professor

Hokkaido University

Sapporo, Japan

1 Apr 2018 → present

## Research outputs

### **Does FDI in agriculture in developing countries promote food security? Evidence from meta-regression analysis**

Samdrup, T., Fogarty, J., Pandit, R., Iftekhar, M. S. & Dorjee, K., Dec 2023, In: *Economic Analysis and Policy*. 80, p. 1255-1272 18 p.

### **Five steps towards transformative valuation of nature**

Termansen, M., Jacobs, S., Pandit, R., Mwampamba, T. H., Dendoncker, N., Schaafsma, M., Contreras, V., González-Jiménez, D., Gundimeda, H., Lee, H., Filyushkina, A., Huambachano, M., Palomo, I. & Castro, A. J., Oct 2023, In: *Current Opinion in Environmental Sustainability*. 64, 8 p., 101344.

### **The pitfalls of plural valuation**

Jacobs, S., Kelemen, E., O'Farrell, P., Martin, A., Schaafsma, M., Dendoncker, N., Pandit, R., Mwampamba, T. H., Palomo, I., Castro, A. J., Huambachano, M. A., Filyushkina, A. & Gunimeda, H., Oct 2023, In: *Current Opinion in Environmental Sustainability*. 64, 8 p., 101345.

### **Whose values count? A review of the nature valuation studies with a focus on justice**

Schaafsma, M., Ahn, S., Castro, A. J., Dendoncker, N., Filyushkina, A., González-Jiménez, D., Huambachano, M., Mukherjee, N., Mwampamba, T. H., Ngouhou-Poufoun, J., Palomo, I., Pandit, R., Termansen, M., Ghazi, H., Jacobs, S., Lee, H. & Contreras, V., Oct 2023, In: *Current Opinion in Environmental Sustainability*. 64, 12 p., 101350.

### **Diverse values of nature for sustainability**

Pascual, U., Balvanera, P., Anderson, C. B., Chaplin-Kramer, R., Christie, M., González-Jiménez, D., Martin, A., Raymond, C. M., Termansen, M., Vatn, A., Athayde, S., Baptiste, B., Barton, D. N., Jacobs, S., Kelemen, E., Kumar, R., Lazos, E., Mwampamba, T. H., Nakangu, B., O'Farrell, P., & 66 others Subramanian, S. M., van Noordwijk, M., Ahn, S. E., Amaruzaman, S., Amin, A. M., Arias-Arévalo, P., Arroyo-Robles, G., Cantú-Fernández, M., Castro, A. J., Contreras, V., De Vos, A., Dendoncker, N., Engel, S., Eser, U., Faith, D. P., Filyushkina, A., Ghazi, H., Gómez-Baggethun, E., Gould, R. K., Guibrinet, L., Gundimeda, H., Hahn, T., Harmáčková, Z. V., Hernández-Blanco, M., Horcea-Milcu, A. I., Huambachano, M., Wicher, N. L. H., Aydın, C. İ., Islar, M., Koessler, A. K., Kenter, J. O., Kosmus, M., Lee, H., Leimona, B., Lele, S., Lenzi, D., Lliso, B., Mannetti, L. M., Merçon, J., Monroy-Sais, A. S., Mukherjee, N., Muraca, B., Muradian, R., Murali, R., Nelson, S. H., Nemogá-Soto, G. R., Ngouhou-Poufoun, J., Niamir, A., Nuesiri, E., Nyumba, T. O., Özkaynak, B., Palomo, I., Pandit, R., Pawłowska-Mainville, A., Porter-Bolland, L., Quaas, M., Rode, J., Rozzi, R., Sachdeva, S., Samakov, A., Schaafsma, M., Sitas, N., Ungar, P., Yiu, E., Yoshida, Y. & Zent, E., 24 Aug 2023, In: *Nature*. 620, 7975, p. 813-823 11 p.

### **The Australian public worries more about losing species than the costs of keeping them**

Zander, K. K., Burton, M., Pandit, R. & Garnett, S. T., 16 Mar 2023, In: *Environmental conservation*. 27

### **The Western Australian Restoration Economy: A roadmap towards a sustainable industry with better environmental outcomes**

Young, R., Subroy, V., Trevenen, L., Kiatkoski Kim, M., Jonson, J., Pandit, R., Whitten, S., Poole, M. & Kragt, M., 28 Feb 2023, Perth: The Western Australian Biodiversity Science Institute. 92 p.

### **Science on ecosystems and people to support the Kunming-Montreal Global Biodiversity Framework**

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**Do protected areas increase household income? Evidence from a Meta-Analysis**

Kandel, P., Pandit, R., White, B. & Polyakov, M., Nov 2022, In: World Development. 159, 106024.

**How public values for threatened species are affected by conservation strategies**

Zander, K. K., Burton, M., Pandit, R., Gunawardena, A., Pannell, D. & Garnett, S. T., 1 Oct 2022, In: Journal of Environmental Management. 319, 10 p., 115659.

**Communicating conservation: how do the Nepalese print media portray caterpillar fungus? An analysis of newspaper coverage from 2008–2021**

Poudel, S., Shrestha, U. B., Pandit, R. & Dhital, K. R., Sept 2022, In: Heliyon. 8, 9, e10439.

**The adoption of laser land leveler technology and its impact on groundwater use in irrigated farmland in Punjab, Pakistan**

Sheikh, A., Muger, A., Pandit, R., Burton, M. & Davies, S., 30 Jul 2022, In: Land Degradation & Development. 33, 12, p. 2026-2038 13 p.

**Actions to halt biodiversity loss generally benefit the climate**

Shin, Y. J., Midgley, G. F., Archer, E. R. M., Arneth, A., Barnes, D. K. A., Chan, L., Hashimoto, S., Hoegh-Guldberg, O., Insarov, G., Leadley, P., Levin, L. A., Ngo, H. T., Pandit, R., Pires, A. P. F., Pörtner, H. O., Rogers, A. D., Scholes, R. J., Settele, J. & Smith, P., May 2022, In: Global Change Biology. 28, 9, p. 2846-2874 29 p.

**Farmyard manure use and adoption of agricultural mechanization among smallholders in the Mahottari District, Nepal**

Chaudhary, A. K., Pandit, R. & Burton, M., Mar 2022, In: World Development Perspectives. 25, 100394.

**What determines the time to gypsum adoption to remediate irrigated salt-affected agricultural lands? Evidence from Punjab, Pakistan**

Sheikh, A. T., Muger, A., Pandit, R., Burton, M. & Davies, S., Mar 2022, In: Soil and Tillage Research. 217, 105266.

**Effect of socioeconomic and institutional factors and sustainable land management practices on soil fertility in smallholder farms in the Mahottari District, Nepal**

Chaudhary, A. K., Pandit, R. & Burton, M., 30 Jan 2022, In: Land Degradation and Development. 33, 2, p. 269-281 13 p.

**Measuring social preferences for conservation management in Australia**

Zander, K. K., St-Laurent, G. P., Hogg, C. J., Sunnucks, P., Woinarski, J., Legge, S., Burton, M., Pandit, R., Hagerman, S. & Garnett, S. T., Oct 2021, In: Biological Conservation. 262, 109323.

**IPBES-IPCC co-sponsored workshop report on biodiversity and climate change**

Pörtner, H. O., Scholes, R. J., Agard, J., Archer, E., Arneth, A., Bai, X., Barnes, D., Burrows, M., Chan, L., Cheung, W. L., Diamond, S., Donatti, C., Duarte, C., Eisenhauer, N., Foden, W., Gasalla, M., Handa, C., Hickler, T., Hoegh-Guldberg, O., Ichii, K., & 42 others Jacob, U., Insarov, G., Kiessling, W., Leadley, P., Leemans, R., Levin, L., Lim, M., Maharaj, S., Managi, S., Marquet, P., McElwee, P., Midgley, G., Oberdorff, T., Obura, D., Osman, E., Pandit, R., Pascual, U., Pires, A. P. F., Popp, A., Reyes-García, V., Sankaran, M., Settele, J., Shin, Y. J., Sintayehu, D. W., Smith, P., Steiner, N., Strassburg, B., Sukumar, R., Trisos, C., Val, A. L., Wu, J., Aldrian, E., Parmesan, C., Pichs-Madruga, R., Roberts, D. C., Rogers, A., Díaz, S., Fischer, M., Hashimoto, S., Lavorel, S., Wu, N. & Ngo, H. T., 10 Jun 2021, Bonn, Germany: Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) and Intergovernmental Panel on Climate Change (IPCC). 28 p.

**Scientific outcome of the IPBES-IPCC co-sponsored workshop on biodiversity and climate change**

Pandit, R., Pörtner, H-O., Scholes, R. J., Agard, J., Archer, E., Arneth, A., Bai, X., Barnes, D., Burrows, M., Chan, L., Cheung (William), W. L., Diamond, S., Donatti, C., Duarte, C., Eisenhauer, N., Foden, W., Gasalla, M. A., Handa, C., Hickler, T., Hoegh-Guldberg, O., & 42 others Ichii, K., Jacob, U., Insarov, G., Kiessling, W., Leadley, P., Leemans, R., Levin, L., Lim, M., Maharaj, S., Managi, S., Marquet, P. A., McElwee, P., Midgley, G., Oberdorff, T., Obura, D., Balgis, E. O., Pascual, U., Pires, A. P. F., Popp, A., Reyes-García, V., Sankaran, M., Settele, J., Shin, Y. J., Sintayehu, D. W., Smith, P., Steiner, N., Strassburg, B., Sukumar, R., Trisos, C., Val, A. L., Wu, J., Aldrian, E., Parmesan, C., Pichs-Madruga, R., Roberts, D., Rogers, A., Díaz, S., Fischer, M., Hashimoto, S., Lavorel, S., Wu, N. & Ngo, H., 10 Jun 2021, Bonn, Germany: Secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services. 256 p.

**Trade-offs and synergies between in situ and ex situ conservation of plant taxa: A process to support practical decision-making**

Subroy, V., Barnes, M., Monks, L., Crawford, A., Coates, D., Pandit, R., Pannell, D., Davies, B., Edgley, M., Gosper, C., Phillips, B., Yates, C., Beecham, B. & Jolliffe, D., 31 May 2021, *Threatened Species Recovery Hub*. 62 p.

**The economics of threatened species**

Pandit, R. & Zander, K., 31 Mar 2021, *Science for saving species*, Summer, 18, p. 8-9 2 p.

**Economic development, the Environmental Protection Act and Offsets**

Pandit, R., 25 Mar 2021, *Going Further, Faster: A Policy Agenda for WA 2021*. Crawley, Perth: UWA Public Policy Institute, p. 19-22

**What are tourists willing to pay for securing the survival of a flagship species? The case of protection of the Ethiopian wolf**

Estifanos, T., Polyakov, M., Pandit, R., Hailu, A. & Burton, M., 1 Feb 2021, In: *Tourism Economics*. 27, 1, p. 45-69 25 p.

**Pathways for building resilience to COVID-19 pandemic and revitalizing the Nepalese agriculture sector**

Thapa Magar, D. B., Pun, S., Pandit, R. & Rola-Rubzen, M. F., Feb 2021, In: *Agricultural Systems*. 187, 103022.

**Key factors for effective partner integration and governance for threatened species recovery**

Skroblin, A., Currey, K., Grindrod, J., Nally, S., Morgain, R., Pandit, R. & Garnett, S., 31 Dec 2020, Brisbane, Australia: *Threatened Species Recovery Hub*. 50 p.

**Valuing multiple threatened species and ecological communities in Australia**

Gunawardena, A., Burton, M., Pandit, R., Garnett, S. T., Zander, K. & Pannell, D., 15 Dec 2020, Australia: *Threatened Species Recovery Hub*. 76 p.

**The income diversification strategies of smallholders in the hills of Nepal**

Sharma, G. P., Pandit, R., White, B. & Polyakov, M., 1 Nov 2020, In: *Development Policy Review*. 38, 6, p. 804-825 22 p.

**Policy forum: Improving the acceptability of REDD+ projects among local households in Indonesia**

Rakatama, A., Pandit, R., Iftekhar, S. & Ma, C., Jul 2020, In: *Forest Policy and Economics*. 116, 102172.

**Perceived benefits and costs of REDD plus projects under different forest management regimes in Indonesia**

Rakatama, A., Iftekhar, M. S. & Pandit, R., 27 May 2020, In: *Climate and Development*. 12, 5, p. 481-493 13 p.

**Managing conflicts between local land use and the protection of the Ethiopian wolf: Residents' preferences for conservation program design features**

Estifanos, T. K., Polyakov, M., Pandit, R., Hailu, A. & Burton, M., 1 Mar 2020, In: *Ecological Economics*. 169, 106511.

**How to halt the global decline of lands**

Willemsen, L., Barger, N. N., Brink, B. T., Cantele, M., Erasmus, B. F. N., Fisher, J. L., Gardner, T., Holland, T. G., Kohler, F., Kotiaho, J. S., von Maltitz, G. P., Nangendo, G., Pandit, R., Parrotta, J. A., Potts, M. D., Prince, S. D., Sankaran, M., Brainich, A., Montanarella, L. & Scholes, R., Mar 2020, In: *Nature Sustainability*. 3, 3, p. 164-166 3 p.

**Reviewing social forestry schemes in Indonesia: Opportunities and challenges**

Rakatama, A. & Pandit, R., 1 Feb 2020, In: *Forest Policy and Economics*. 111, 102052.

**The impact of protected areas on the rural households' incomes in Ethiopia**

Estifanos, T. K., Polyakov, M., Pandit, R., Hailu, A. & Burton, M., Feb 2020, In: *Land Use Policy*. 91, 104349.

**A framework to evaluate land degradation and restoration responses for improved planning and decision-making**

Pandit, R., Parrotta, J. A., Chaudhary, A. K., Karlen, D. L., Vieira, D. L. M., Anker, Y., Chen, R., Morris, J., Harris, J. & Ntshotsho, P., 1 Jan 2020, In: *Ecosystems and People*. 16, 1, p. 1-18 18 p.

**The science-policy interface on ecosystems and people: challenges and opportunities**

Balvanera, P., Jacobs, S., Nagendra, H., O'Farrell, P., Bridgewater, P., Crouzat, E., Dendoncker, N., Goodwin, S., Gustafsson, K. M., Kadykalo, A. N., Krug, C. B., Matuk, F. A. M. V., Pandit, R., Sala, J. E., Schröter, M. & Washbourne, C. L., 2020, In: *Ecosystems and People*. 16, 1, p. 345-353 9 p.

**The worth of wildlife: A meta-analysis of global non-market values of threatened species**

Subroy, V., Gunawardena, A., Polyakov, M., Pandit, R. & Pannell, D. J., 1 Oct 2019, In: *Ecological Economics*. 164, 106374.

**Improved budgetary planning for threatened species and ecological community recovery plans**

Garnett, S. T., Luck, L., Zander, K. K., Pandit, R., Gunawardena, A. & Pannell, D., 31 Jul 2019, National Environmental Science Programme. 24 p.

**Eliciting public values for management of complex marine systems: An integrated choice experiment**

Davis, K. J., Burton, M., Rogers, A., Spencer-Cotton, A. & Pandit, R., 1 Jan 2019, In: *Marine Resource Economics*. 34, 1, p. 1-21 21 p.

**How to design more effective REDD+ projects – The importance of targeted approach in Indonesia**

Rakatama, A., Pandit, R., Iftekhhar, S. & Ma, C., 1 Dec 2018, In: *Journal of Forest Economics*. 33, p. 25-32 8 p.

**Policy choice and riverine water quality in developing countries: An integrated hydro-economic modelling approach**

Gunawardena, R., White, B., Hailu, A., Wijeratne, S. & Pandit, R., 1 Dec 2018, In: *Journal of Environmental Management*. 227, p. 44-54 11 p.

**Heterogeneous public preference for REDD+ projects under different forest management regimes**

Rakatama, A., Pandit, R., Iftekhhar, S. & Ma, C., 1 Nov 2018, In: *Land Use Policy*. 78, p. 266-277 12 p.

**Authorship, Collaboration, Topics, and Research Gaps in Environmental and Resource Economics 1991–2015**

Polyakov, M., Chalak, M., Iftekhhar, M. S., Pandit, R., Tapsuwan, S., Zhang, F. & Ma, C., Sept 2018, In: *Environmental and Resource Economics*. 71, 1, p. 217-239 23 p.

**Socio-economic factors affecting the rate of adoption of acacia plantations by smallholders in Indonesia**

Permadi, D. B., Burton, M., Pandit, R., Race, D., Ma, C., Mendham, D. & Hardiyanto, E. B., 1 Jul 2018, In: *Land Use Policy*. 76, p. 215-223 9 p.

**Local community's preferences for accepting a forestry partnership contract to grow pulpwood in Indonesia: A choice experiment study**

Permadi, D. B., Burton, M., Pandit, R., Race, D. & Walker, I., 1 Jun 2018, In: *Forest Policy and Economics*. 91, p. 73-83 11 p.

**REDD+ adoption and factors affecting respondents' knowledge of REDD+ goal: Evidence from household survey of forest users from REDD+ piloting sites in Nepal**

Pandit, R., 1 Jun 2018, In: *Forest Policy and Economics*. 91, p. 107-115 9 p.

**Protection of the Ethiopian Wolf: What are tourists willing to pay for?**

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**Decision support to address land degradation and support restoration of degraded land**

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Responses to halt land degradation and to restore degraded land

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### **Setting the Scene**

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### **Summary for policymakers of the assessment report on land degradation and restoration of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services**

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### **Climate change and loss, as if people mattered: values, places, and experiences**

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### **Industrial pollution and the management of river water quality: a model of Kelani River, Sri Lanka**

Gunawardena, A., Wijeratne, E. M. S., White, B., Hailu, A. & Pandit, R., 1 Sept 2017, In: *Environmental Monitoring and Assessment*. 189, 9, 457.

### **An assessment of marine protected areas as a marine management strategy in Southeast Asia: A literature review**

Ahmad Kamil, K., Hailu, A., Rogers, A. & Pandit, R., 1 Aug 2017, In: *Ocean and Coastal Management*. 145, p. 72-81 10 p.

### **Valuing nature's contributions to people: the IPBES approach**

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### **Which smallholders are willing to adopt Acacia mangium under long-term contracts? Evidence from a choice experiment study in Indonesia**

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### **Estimating marginal abatement costs for industrial water pollution in Colombo**

Gunawardena, A., Hailu, A., White, B. & Pandit, R., 1 Mar 2017, In: *Environmental Development*. 21, p. 26-37 12 p.

### **The costs and benefits of REDD<sup>+</sup>: A review of the literature**

Rakatama, A., Pandit, R., Ma, C. & Iftekhar, S., 1 Feb 2017, In: *Forest Policy and Economics*. 75, p. 103-111 9 p.

### **Economics of carbon sequestration in community forests: Evidence from REDD+ piloting in Nepal**

Pandit, R., Neupane, P. R. & Wagle, B. H., 1 Jan 2017, In: *Journal of Forest Economics*. 26, p. 9-29 21 p.

### **The value of restoring urban drains to living streams**

Polyakov, M., Fogarty, J. J., Zhang, F., Pandit, R. & Pannell, D. J., Jan 2017, In: *Water Resources and Economics*. 17, p. 42-55 14 p.

### **Cost of controlling water pollution and its impact on industrial efficiency**

Gunawardena, A., Hailu, A., White, B. & Pandit, R., Sept 2016, Kathmandu, Nepal: South Asian Network for Development and Environmental Economics . 22 p. (SANDEE Working Papers)

### **Capitalisation of residential solar photovoltaic systems in Western Australia**

Ma, C., Polyakov, M. & Pandit, R., 1 Jul 2016, In: *The Australian Journal of Agricultural and Resource Economics*. 60, 3, p. 366-385 20 p.

### **A review of non-market valuation studies of threatened species and ecological communities**

Pandit, R., Subroy, V., Garnett, S., Zander, K. & Pannell, D. J., 18 Dec 2015, Australia: National Environmental Science Programme. 40 p.

### **Consumers' willingness to pay for renewable energy: A meta-regression analysis**

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### **Capitalized amenity value of native vegetation in a multifunctional rural landscape**

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