School of Life Sciences

Human Dimensions Section

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##### Ann P. Kinzig

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| **Current Research** | My scientific research focuses broadly on ecosystem services, conservation-development interactions, and the resilience of natural-resource systems. I am currently involved in two major research projects, including: (1) the resilience of pre-historic landscapes in the American Southwest; and (2) modelling anthropogenic effects in the spread of diseases. More recently, my research interests have involved understanding *how* and *when* universities can effectively address societal challenges while still maintaining integrity in scholarship, and how they must be organized to do so. |
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| Education | *University of California, Berkeley*  Ph.D. in Energy and Resources, May 1994  M.A. in Physics, Dec 1988  *University of Illinois at Urbana-Champaign*  B.S. in Physics, May 1986, *summa cum laude* |
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| **Awards & Honors** | Special recognition, Professor of the Year, ASU’s “Sun Devil Family Association” 2013  Elected Fellow of the *American Association for the Advancement of Science* 2007  Arizona State University Faculty Exemplar, 2004  Aldo Leopold Leadership Fellow, *Ecological Society of America*, 2000  1st Roger Revelle Fellow in Global Stewardship, *American Association for the Advancement of Science*, Sep 98 to Aug 99 |
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| Experience | Arizona State University Chief Research Strategist, Julie Ann Wrigley Global Institute of Sustainability, Aug 10 to present  Steering Committee, Leadership Academy, Jul 11 to present  Professor, School of Life Sciences, Jul 09 to present  Associate Professor, School of Life Sciences, Aug 04 to Jun 09  Assistant Professor, Department of Biology, Aug 98 to Aug 04 Office of Science and Technology Policy, Executive Office of the President of the United States AAAS Roger Revelle Fellow (on leave from ASU), Aug 98 to Aug 99 Princeton University Assistant Director, Princeton Environmental Institute  & Lecturer, Dept. of Ecology and Evolutionary Biology, Jul 96 to Jul 98  Post-doctoral associate, Dept. of Ecology and Evolutionary Biology  & The Center for Energy and Environmental Studies, Jul 94 to Jul 96 |
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| Publications **Peer-reviewed Journal Articles & Book Chapters**  **2017 or In Press** | Morin, B., **A. Kinzig,** S.A. Levin, and C. Perrings. In press. Economic instruments for the socially optimal management of infectious disease. *EcoHealth.*  Strawhacker, C., G Snitker, K Spielmann, M Wasiolek, J Sandor, **A Kinzig**, & K Kintigh. In press. Risk Landscapes and Domesticated Landscapes: Food Security in the Salinas Province. In *Landscapes, Mobilities, and Social Transformations: Arriving at the Fifteenth Century in the Pueblo Rio Grande*, edited by K. Spielmann. University of Arizona Press.  Nelson, M., **A.P. Kinzig,** J. Arneborg, R. Streeter, & S.E. Ingram. 2017. Vulnerability to food insecurity: Trade-offs and their consequences. Pp. 255-290 in M. Hegmon (ed), *The Give and Take of Sustainability: Archeological and Anthropological Perspectives on Trade-Offs*. Cambridge University Press.  Wu, T., C. Perrings, **A. Kinzig**, J.P. Collins, B.A. Minteer, P. Daszak. Economic growth, urbanization, globalization, and the risks of emerging infectious diseases in China: A review. 2017. *Ambio* 46:18-29.  **Kinzig, A.P.** On achieving balance. 2017. *Ecosystems* 20:253-8 |
| 2015 | Torvinen, A., M Hegmon, **A.P. Kinzig**, M.C. Nelson, M.A. Peeples, C. Strawhacker, K.G. Schollmeyer, & L. Swantek. 2015. Transformation without collapse: Two cases from the American Southwest. PP. 262-286 in R. Faulseit, ed. *Beyond Collapse: Archaeological Perspectives on Resilience, Revitalization, and Reorganization in Complex Societies.* Southern Illinois University Press, Carbondale, IL.  Morin, B., C.A. Perrings, **A.P. Kinzig,** & S.A. Levin. 2015. The social value of private infectious disease risk mitigation. *Theoretical Ecology* 8(4):467-479  Kinzig, A.P. & T.O. McShane. 2015. Conservation in Africa: exploring the impacts of social, economic, and political drivers on conservation outcomes. (Introduction to a Special Issue on Conservation in Africa, A.P. Kinzig & T.O. McShane, guest editors.) *Environmental Research Letters* 10(9). (<http://iopscience.iop.org/1748-9326/10/9/090201)>  Simonit, S., J.P. Connors, J. Yoo, **A.P. Kinzig**, & C. Perrings. 2015. The impact of forest thinning on the reliability of water supply in Central Arizona. *PLOS|one.* DOI: 10.1371/journal.pone.0121596 **Kinzig, A.P.** Climate adaptation. 2015. Contribution to a Special Issue on Physics of Sustainable Energy III (PSE III): Using Energy Efficiently and Producing it Renewably. AIP Conference Proceedings 1652(177):177-182. Kintigh, K., J.H. Altschul, **A.P. Kinzig**, W.F. Limp, W.K. Michener, J.A. Sabloff, E.J. Hackett, T.A. Kohler, B. Ludäscher, & C.A. Lynch. 2015. Cultural dynamics, deep time, and data: Planning cyberinfrastructure investments for archaeology. *Advances in Archeological Practice* 3(1):1-15  Wong, C., B. Jiang, **A. Kinzig**, K. Lee, & Z. Ouyang. 2015. Linking ecosystem characteristics to final ecosystem services for public policy. *Ecology Letters* 18(1):108-118. [doi: 10.1111/ele.12389] |
| 2014 | **Kinzig, A.P.** and C. Perrings. 2014. Consumption, sustainability, and resilience in social-ecological systems. Pp. 97-116 in Southerton, D. and Al Ulph (Eds). *Sustainable Consumption: Multi-Dimensional Perspectives in Honour of Professor Sir Partha Das Gupta.* Oxford University Press.  Perrings, C., **A.P. Kinzig**, & G. Halkos. 2014. Sustainable development in an N-rich/N-poor world. *Ambio* 2014 **43**(7):891-905 [DOI 10.1007/s13280-013-0488-1]  Perrings, C., C. Castillo-Chavez, G. Chowell, P. Daszak, E.P. Fenichel, D. Finnoff, R.D. Horan, A.M. Kilpatrick, **A. Kinzig**, N.V. Kuminoff, S. Levin, B. Morin, K.F. Smith, & M. Springborn. 2014. Merging economics and epidemiology to improve the prediction and management of infectious disease. *EcoHealth* online version [DOI: 10.1007/s10393-014-0963-6].  Morin, B., C.A. Perrings, **A.P. Kinzig,** & S.A. Levin. 2014. Disease risk mitigation: The equivalence of two selective mixing strategies on aggregate contact patterns and resulting epidemic spread. *Journal of Theoretical Biology* **363**:262-70. [DOI: 10.1016/j.jtbi.2014.07.037]  Yoo, J., S. Simonit, J.P. Connors, **A.P.** **Kinzig,** & C. Perrings. 2014. Estimating the price elasticity of residential water demand in Phoenix. *Applied Economics Perspectives and Policy* 36(2):333-50.  Lewis, D., J.P. Kaye, & **A.P. Kinzig.** 2014. Legacies of agriculture and urbanization in labile and stable carbon and nitrogen in Sonoran Desert soils. *Ecosphere* 5:art59 http://dx.doi.org/10.1890/ES13-00400.1  Yoo, J., S. Simonit, J. P. Connors, **A. P. Kinzig**, and C. Perrings. 2014. The valuation of off-site ecosystem service flows: deforestation, erosion and the amenity value of lakes in Prescott, Arizona. *Ecological Economics* **97:** 74-83.  Kintigh, K., J.H. Altschul, M.C. Beaudry, R.D. Drennan, **A.P. Kinzig**,  T.A. Kohler, W.F. Limp, H.D.G. Maschner, W.K. Michener, T.R. Pauketat, P. Peregrine, J.A. Sabloff, T.J. Wilkinson, H.T. Wright, & M.A. Zeder. 2014. Grand challenges for archeology. *Proceedings of the National Academy of Sciences* 111(3):879-80  Kintigh, K., J.H. Altschul, M.C. Beaudry, R.D. Drennan, **A.P. Kinzig**,  T.A. Kohler, W.F. Limp, H.D.G. Maschner, W.K. Michener, T.R. Pauketat, P. Peregrine, J.A. Sabloff, T.J. Wilkinson, H.T. Wright, & M.A. Zeder. 2014. Grand challenges for archeology. *American Antiquity* 79(1):5-24 |
| 2013 | Cutts, B., N. Moore, A. Fox, A. Knox, & **A. Kinzig**. 2013. Testing neighborhood, information seeking, and attitudes as explanations of environmental knowledge using random forest and conditional inference models. *Professional Geographer* 65(4):561-79.  Yoo, J., S. Simonit, J. P. Connors, P. J. Maliszewski, **A.P. Kinzig**, and C. Perrings. 2013. The value of agricultural water rights in agricultural properties in the path of development. *Ecological Economics* 91:57-68.  **Kinzig, A.P.,** P.R. Ehrlich, L. Alston, K. Arrow, S. Barrett, T. Buchman, G. Daily, B. Levin, S. Levin, M. Oppenheimer, E. Ostrom, & D. Saari. 2013. Social norms and global environmental challenges: The complex interactions of behaviors, values, and policies. *BioScience* 63(3):164-75.  Dasgupta, P., **A.P. Kinzig** & C. Perrings**.** 2013**.** The value of biodiversity. Pp. 167-79 in *The Encyclopedia of Biodiversity (2nd edition)*, S. Levin (ed). Elsevier.  Cook, E., R. Hale, J.M. Grove, & **A.P. Kinzig.** 2013**.** Urban-suburban biodiversity. Pp. 733-45 in *The Encyclopedia of Biodiversity (2nd edition)*, S. Levin (ed). Elsevier. |
| 2012 | Nelson, M.C., M. Hegmon, K.W. Kintigh, **A.P. Kinzig**, B.A. Nelson, J.M. Anderies, D.A. Abbott, K.A. Spielman, S.E. Ingram, M.A. Peeples, S. Kulow, C.A. Strawhacker, C. Meegan. 2012. Long-term vulnerability and resilience: Three examples from archaeological study in the Southwestern US and Northern Mexico. Pp. 193-217 in *Surviving Sudden Environmental Change*. J. Cooper and P. Sheets (eds). University Press of Colorado, Boulder, CO.  Reprinted as Nelson, M. C., M. Hegmon, K. W. Kintigh, A. P. Kinzig, B. A. Nelson, J. M. Anderies, D. A. Abbott, K. A. Spielmann, S. E. Ingram, M. A. Peeples, S. Kulow, C. A. Strawbacker, and C. Meegan. 2013.   in  Edited by ,  **Kinzig, A.P.** Towards a deeper understanding of the social in resilience: The contributions of cultural landscapes. 2012. Ch. 18 in *Resilience and the Cultural Landscape,* T. Plieninger and C. Bieling (eds). Cambridge University Press.  Lepczyk, C., P.S. Warren, L. Machabée, **A.P. Kinzig**, & A.G. Mertig. 2012. Who feeds the birds? An urban comparison between Phoenix, Arizona and Southeastern Michigan. Pp. 267-284 in C. Lepczyk & P.S. Warren, eds. *Urban Bird Ecology and Conservation: Studies in Avian Biology* (no 45). University of California Press, Berkeley, CA.  Cardinale, B., J.E. Duffy, A. Gonzalez, D.U. Hooper, C. Perrings, P. Venail, A. Narwani, G.M. Mace, D. Tilman, D.A. Wardle, **A.P. Kinzig**, G.C. Daily, M. Loreau, J.B. Grace, A. Larigauderie, D. Srivastava, & S. Naeem. 2012. Biodiversity loss and its impact on humanity. *Nature* **486:**59-67*.* |
| 2011 | **Kinzig, A.P.** 2011. Asko 1993: A commentary. Pp.45-47 in Söderqvist, T., A. Sunbaum, C. Folke, & K.G. Mäler, eds. *Bringing Ecologists and Economists Together: The Askö Meetings and Papers.* Springer, Dordrecht.  Cutts, B., D. White, & **A.P. Kinzig.** 2011. Participatory geographic information systems for the co-production of science and policy in an emerging boundary organization. *Environmental Science and Policy* **14**(8):977-85*.*  **Kinzig, A.P**., C. Perrings, F. S. Chapin, S. Polasky, V. K. Smith, D. Tilman, and B. L. Turner. 2011. Paying for ecosystem services: Promise and peril. *Science* 334:603-604.  Perrings, C., S. Naeem, S.F. Ahrestani, D.E. Bunker, P. Burkill, G. Canziani, T. Elmqvist, J.A. Fuhrman, F.M. Jacksic, Z. Kawabata, **A. Kinzig,** G.M. Mace, H. Mooney, A.H. Prieur-Richard, J. Tschirhart, W. Weisser. 2011. Ecosystem services, targets, and indicators for the conservation and sustainable use of biodiversity. *Frontiers in Ecology and the Environment* 9(9):512-20.  Nelson, M., S. Kulow, M. Peeples, M. Hegmon, **A. Kinzig**, & K. Kintigh. 2011. Resisting diversity: A long-term archeological study. *Ecology and Society* 16(1):online*.*  McShane, T.O., P. Hirsch, T.C. Trung, A. Songorwa, **A. Kinzig**, B. Monteferri, D. Mutekganga, H.V. Thang, J.L. Dammert, M. Pulgar-Vidal, M. Welch-Divine, P. Brosius, P. Coppolillo, and S. O’Connor. 2011. Hard choices: Making trade-offs between biodiversity conservation and human well being. *Biological Conservation* 144(3):966-72. |
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| Teaching & Training **Current University Courses** | *Arizona State University*  Bio 314: Research Colloquium for Biology and Society I (S06 through S16)  Bio 414: Research Colloquium for Biology and Society II (S06 through S16)  Bio 494: People and Nature (F09, F10, F12)  Bio 434: People and Nature (F14 to F16)  Bio 591: Ecosystem Services (F08 to present) |
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