

# Digital Development Area of Interest

## Core Reading List (required material for breadth comprehensive exam)

1. Aker, J. C., & Blumenstock, J. E. (2015). The economic impacts of new technologies in Africa. *The Oxford handbook of Africa and economics*, 2, 354-371.
2. Aker, J. C., & Mbiti, I. M. (2010). Mobile phones and economic development in Africa. *Journal of Economic Perspectives*, 24(3), 207-32.
3. Andersson, A., Grönlund, Å., & Wicander, G. (2012). Development as freedom—how the capability approach can be used in ICT4D research and practice. *Information Technology for Development*
4. Andoh-Baidoo, F. K. (2017). Context-specific theorizing in ICT4D research. *Information Technology for Development*. Volume 23, 2017 - Issue 2:
5. Armenta, Á., Serrano, A., Cabrera, M., & Conte, R. (2012). The new digital divide: the confluence of broadband penetration, sustainable development, technology adoption and community participation. *Information Technology for Development*, 18(4), 345-353.
6. Bélanger, F., & Crossler, R. E. (2011). Privacy in the Digital Age: A Review of Information Privacy Research in Information Systems. *MIS Quarterly*, 35(4), 1017–1041.  
<https://doi.org/10.2307/41409971>
7. De, R., Pal, A., Sethi, R., Reddy, S. K., & Chitre, C. (2018). ICT4D research: a call for a strong critical approach. *Information Technology for Development*, 24(1), 63-94.
8. Díaz Andrade, A., & Urquhart, C. (2012). Unveiling the modernity bias: a critical examination of the politics of ICT4D. *Information Technology for Development*, 18(4), 281-292
9. Ferguson, J., Soekijad, M., Huysman, M., & Vaast, E. (2013). Blogging for ICT4D: reflecting and engaging with peers to build development discourse. *Information Systems Journal*, 23(4), 307-328.
10. Kleine, D. (2010). ICT4WHAT?—Using the choice framework to operationalise the capability approach to development. *Journal of International Development*, 22(5), 674-692.
11. Lin, C. I., & Myers, M. D. (2015). Extending ICT4D Studies: The Value of Critical Research. *MIS Quarterly*, 39(3).
12. Njihia, J. M., & Merali, Y. (2013). The broader context for ICT4D projects: a morphogenetic analysis. *MIS Quarterly*, 881-905.
13. Qureshi, S. (2015). Are we making a better world with information and communication technology for development (ICT4D) research? Findings from the field and theory building. *Information Technology for Development*. Volume 21, 2015 - Issue 4
14. Sahay, S., Sein, M. K., & Urquhart, C. (2017). Flipping the context: ICT4D, the next grand challenge for IS research and practice. *Journal of the Association of Information Systems*, 18(12), 837-847.
15. Samoilenko, S. V., & Osei-Bryson, K. M. (2017). *Creating Theoretical Research Frameworks Using Multiple Methods: Insight from ICT4D Investigations*. Auerbach Publications.
16. Seidman, I. (2006). *Interviewing as qualitative research: A guide for researchers in education and the social sciences*. Teachers college press.
17. Sein, M. K., Thapa, D., Hatakka, M., & Sæbø, Ø. (2018). A holistic perspective on the theoretical foundations for ICT4D research. *Information Technology for Development*, 1-19.
18. Srivastava, S. C., & Teo, T. S. (2007). E-government payoffs: Evidence from cross-country data. *Journal of Global Information Management (JGIM)*, 15(4), 20-40.
19. Srivastava, Shirish C., Thompson SH Teo, and Sarv Devaraj. "You Can't Bribe a Computer: Dealing with the Societal Challenge of Corruption Through ICT." *MIS Quarterly* 40, no. 2 (2016): 511-526.

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20. Tibben, W. J. (2015). Theory building for ICT4D: Systemizing case study research using theory triangulation. *Information Technology for Development*, 21(4), 628-652. Volume 18, 2012 - Issue 1
21. Urquhart, C. (2012). *Grounded theory for qualitative research: A practical guide*. Sage.
22. Venkatesh, V., Rai, A., Sykes, T. A., & Aljafari, R. (2016). Combating Infant Mortality in Rural India: Evidence from a Field Study of eHealth Kiosk Implementations. *MIS Quarterly*, 40(2), 353-380.
23. Walsham, G. (2017). ICT4D research: reflections on history and future agenda. *Information Technology for Development*, 23(1), 18-41.
24. Zheng, Y., Hatakka, M., Sahay, S., & Andersson, A. (2018). Conceptualizing development in information and communication technology for development (ICT4D). *Information Technology for Development* Volume 24, 2018 - Issue 1

## Supplemental Readings (not required for breadth exam)

### Theory

- Andersson, A., Grönlund, Å., & Wicander, G. (2012). Development as freedom—how the capability approach can be used in ICT4D research and practice. *Information Technology for Development*
- Andoh-Baidoo, F. K. (2017). Context-specific theorizing in ICT4D research. *Information Technology for Development*. Volume 23, 2017 - Issue 2:
- Bélanger, F., & Crossler, R. E. (2011). Privacy in the Digital Age: A Review of Information Privacy Research in Information Systems. *MIS Quarterly*, 35(4), 1017–1041. <https://doi.org/10.2307/41409971>
- De, R., Pal, A., Sethi, R., Reddy, S. K., & Chitre, C. (2018). ICT4D research: a call for a strong critical approach. *Information Technology for Development*, 24(1), 63-94.
- Díaz Andrade, A., & Urquhart, C. (2012). Unveiling the modernity bias: a critical examination of the politics of ICT4D. *Information Technology for Development*, 18(4), 281-292.
- Ferguson, J., Soekijad, M., Huysman, M., & Vaast, E. (2013). Blogging for ICT4D: reflecting and engaging with peers to build development discourse. *Information Systems Journal*, 23(4), 307-328.
- Goldweber, M., Barr, J., Clear, T., Davoli, R., Mann, S., Patitsas, E., & Portnoff, S. (2013). A framework for enhancing the social good in computing education: a values approach. *ACM Inroads*, 4(1), 58-79.
- Heeks, R. (2017). *Information and communication technology for development (ICT4D)*. Routledge.
- Kleine, D. (2010). ICT4WHAT?—Using the choice framework to operationalise the capability approach to development. *Journal of International Development*, 22(5), 674-692.
- Koh, C., Joseph, D., & Ang, S. (2010). Cultural intelligence and the global information technology workforce. *The Handbook of Technology Management: Supply Chain Management, Marketing and Advertising, and Global Management*. Bidgoli, H.(Ed.), 2, 828-844.
- Lin, C. I., & Myers, M. D. (2015). Extending ICT4D Studies: The Value of Critical Research. *MIS Quarterly*, 39(3).
- Margolis, J. (2010). *Stuck in the shallow end: Education, race, and computing*. MIT Press.
- Qureshi, S. (2015). Are we making a better world with information and communication technology for development (ICT4D) research? Findings from the field and theory building. *Information Technology for Development*. Volume 21, 2015 - Issue 4
- Sahay, S., Sein, M. K., & Urquhart, C. (2017). Flipping the context: ICT4D, the next grand challenge for IS research and practice. *Journal of the Association of Information Systems*, 18(12), 837-847.
- Sein, M. K., Thapa, D., Hatakka, M., & Sæbø, Ø. (2018). A holistic perspective on the theoretical foundations for ICT4D research. *Information Technology for Development*, 1-19.
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Volume 18, 2012 - Issue 1
- Walsham, G. (2017). ICT4D research: reflections on history and future agenda. *Information Technology for Development*, 23(1), 18-41.
- Zheng, Y., Hatakka, M., Sahay, S., & Andersson, A. (2018). Conceptualizing development in information and communication technology for development (ICT4D). *Information Technology for Development* Volume 24, 2018 - Issue 1

### Empirical Research

- Aker, J. C., & Blumenstock, J. E. (2015). The economic impacts of new technologies in Africa. *The Oxford handbook of Africa and economics*, 2, 354-371.

Last updated 9/24/2019

- Aker, J. C., & Mbiti, I. M. (2010). Mobile phones and economic development in Africa. *Journal of Economic Perspectives*, 24(3), 207-32.
- Armenta, Á., Serrano, A., Cabrera, M., & Conte, R. (2012). The new digital divide: the confluence of broadband penetration, sustainable development, technology adoption and community participation. *Information Technology for Development*, 18(4), 345-353.
- Boateng, R., Heeks, R., Molla, A., & Hinson, R. (2008). E-commerce and socio-economic development: conceptualizing the link. *Internet Research*, 18(5), 562-594.
- Braa, J., Hanseth, O., Heywood, A., Mohammed, W., & Shaw, V. (2007). Developing health information systems in developing countries: the flexible standards strategy. *Mis Quarterly*, 381-402.
- Kraemer, K.L., Dedrick, J., and Sharma, P. (2009). One laptop per child: vision vs. reality. *Commun. ACM* 52, 6 (June 2009), 66-73. DOI: <https://doi.org/10.1145/1516046.1516063>
- Mbiti, I., & Weil, D. N. (2015). Mobile banking: The impact of M-Pesa in Kenya. In *African Successes, Volume III: Modernization and Development* (pp. 247-293). University of Chicago Press.
- Nguyen, Q. K. (2016, November). Blockchain-a financial technology for future sustainable development. In *2016 3rd International Conference on Green Technology and Sustainable Development (GTSD)* (pp. 51-54). IEEE.
- Njihia, J. M., & Merali, Y. (2013). The broader context for ICT4D projects: a morphogenetic analysis. *Mis Quarterly*, 881-905.
- Qureshi, S., Kamal, M., & Wolcott, P. (2009). Information technology interventions for growth and competitiveness in micro-enterprises. *International Journal of Enterprise Information Systems (IJEIS)*, 5(2), 71-95.
- Sachs, J. (2001). *Macroeconomics and health: investing in health for economic development*. World Health Organization.
- Srivastava, S. C., & Shainesh, G. (2015). Bridging the Service Divide Through Digitally Enabled Service Innovations: Evidence from Indian Healthcare Service Providers. *Mis Quarterly*, 39(1), 245-267.
- Srivastava, S. C., & Teo, T. S. (2007). E-government payoffs: Evidence from cross-country data. *Journal of Global Information Management (JGIM)*, 15(4), 20-40.
- Srivastava, Shirish C., Thompson SH Teo, and Sarv Devaraj. "You Can't Bribe a Computer: Dealing with the Societal Challenge of Corruption Through ICT." *Mis Quarterly* 40, no. 2 (2016): 511-526.
- Suri, T., & Jack, W. (2016). The long-run poverty and gender impacts of mobile money. *Science*, 354(6317), 1288-1292.
- Swan, M. (2015). *Blockchain: Blueprint for a new economy*. " O'Reilly Media, Inc."
- Venkatesh, V., Rai, A., Sykes, T. A., & Aljafari, R. (2016). Combating Infant Mortality in Rural India: Evidence from a Field Study of eHealth Kiosk Implementations. *Mis Quarterly*, 40(2), 353-380.
- Wolcott, P., Kamal, M., & Qureshi, S. (2008). Meeting the challenges of ICT adoption by micro-enterprises. *Journal of Enterprise Information Management*, 21(6), 616-632.

## Methodology

- Boussaïd, I., Lepagnot, J., & Siarry, P. (2013). A survey on optimization metaheuristics. *Information sciences*, 237, 82-117.
- Bryman, A. (2016). *Social research methods*. Oxford university press.
- Fowler Jr, F. J. (2013). *Survey research methods*. Sage publications.
- James, G., Witten, D., Hastie, T., & Tibshirani, R. (2013). *An introduction to statistical learning* (Vol. 112, p. 18). New York: Springer.
- Karanasios, S. (2014). Framing ICT4D research using activity theory: a match between the ICT4D field and theory?. *Information Technologies & International Development*, 10(2), pp-1.

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- Kotsiantis, S. B. (2007, June). Supervised Machine Learning: A Review of Classification Techniques. In Proceedings of the 2007 conference on Emerging Artificial Intelligence Applications in Computer Engineering: Real World AI Systems with Applications in eHealth, HCI, Information Retrieval and Pervasive Technologies (pp. 3-24). IOS Press.
- Liu, W., Wang, Z., Liu, X., Zeng, N., Liu, Y., & Alsaadi, F. E. (2017). A survey of deep neural network architectures and their applications. *Neurocomputing*, 234, 11-26.
- Samoilenko, S. V., & Osei-Bryson, K. M. (2017). *Creating Theoretical Research Frameworks Using Multiple Methods: Insight from ICT4D Investigations*. Auerbach Publications.
- Seidman, I. (2006). *Interviewing as qualitative research: A guide for researchers in education and the social sciences*. Teachers college press.
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