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Bio

BIO

Alexis Medina has been researching the economics of social issues in China for over ten years. She has extensive experience in international program management, including leading survey teams in rural China, overseeing the design and development of field projects, and coordinating data collection and analysis. Her research interests center on the intersection of health and education in rural China. Alexis speaks fluent Mandarin, and holds a Master's in East Asian Studies from Yale University.

Publications

PUBLICATIONS

- **Prevalence of Anemia and Associated Factors among Infants under Six Months in Rural China.** *Public health nutrition*
Du, Y., Durstenfeld, A., Dill, S., Wang, Q., Zhou, H., Xue, H., Kache, S., Medina, A., Rozelle, S.
2022; 1-27
- **Parenting centers and caregiver mental health: Evidence from a large-scale randomized controlled trial in China.** *Child development*
Jiang, Q., Dill, S., Sylvia, S., Singh, M. K., She, X., Wang, E., Medina, A., Rozelle, S.
2022
- **Passive versus active service delivery: Comparing the effects of two parenting interventions on early cognitive development in rural China** *WORLD DEVELOPMENT*
Sylvia, S., Luo, R., Zhong, J., Dill, S., Medina, A., Rozelle, S.
2022; 149
- **Determinants of breastfeeding self-efficacy among postpartum women in rural China: A cross-sectional study.** *PloS one*
Li, L., Wu, Y., Wang, Q., Du, Y., Friesen, D., Guo, Y., Dill, S., Medina, A., Rozelle, S., Zhou, H.
2022; 17 (4): e0266273
- **Passive versus active service delivery: Comparing the effects of two parenting interventions on early cognitive development in rural China.** *World development*
Sylvia, S., Luo, R., Zhong, J., Dill, S. E., Medina, A., Rozelle, S.
2022; 149: 105686
- **Early childhood development and parental training interventions in rural China: a systematic review and meta-analysis.** *BMJ global health*
Emmers, D., Jiang, Q., Xue, H., Zhang, Y., Zhang, Y., Zhao, Y., Liu, B., Dill, S., Qian, Y., Warrinnier, N., Johnstone, H., Cai, J., Wang, et al
2021; 6 (8)
- **Health, economic, and social implications of COVID-19 for China's rural population** *AGRICULTURAL ECONOMICS*
Wang, H., Dill, S., Zhou, H., Ma, Y., Xue, H., Sylvia, S., Smith, K., Boswell, M., Medina, A., Loyalka, P., Abby, C., Friesen, D., Rose, et al
2021
- **Health, economic, and social implications of COVID-19 for China's rural population.** *Agricultural economics (Amsterdam, Netherlands)*
Wang, H., Dill, S. E., Zhou, H., Ma, Y., Xue, H., Sylvia, S., Smith, K., Boswell, M., Medina, A., Loyalka, P., Abby, C., Friesen, D., Rose, et al
2021; 52 (3): 495-504

- **FROM QUANTITY TO QUALITY: DELIVERING A HOME-BASED PARENTING INTERVENTION THROUGH CHINA'S FAMILY PLANNING CADRES** *ECONOMIC JOURNAL*
Sylvia, S., Warrinnier, N., Luo, R., Yue, A., Attanasio, O., Medina, A., Rozelle, S.
2021; 131 (635): 1365-1400
- **Early Childhood Reading in Rural China and Obstacles to Caregiver Investment in Young Children: A Mixed-Methods Analysis.** *International journal of environmental research and public health*
Li, R., Rose, N., Zheng, Y. M., Chen, Y., Sylvia, S., Wilson-Smith, H., Medina, A., Dill, S., Rozelle, S.
2021; 18 (4)
- **Perinatal Mental Health Problems in Rural China: The Role of Social Factors.** *Frontiers in psychiatry*
Jiang, Q., Guo, Y., Zhang, E., Cohen, N., Ohtori, M., Sun, A., Dill, S., Singh, M. K., She, X., Medina, A., Rozelle, S. D.
1800; 12: 636875
- **Maternal health behaviors during pregnancy in rural Northwestern China.** *BMC pregnancy and childbirth*
Ma, Y., Gao, Y., Li, J., Sun, A., Wang, B., Zhang, J., Dill, S., Medina, A., Rozelle, S.
2020; 20 (1): 745
- **Conditional cash transfers, uptake of maternal and child health services, and health outcomes in western rural China.** *BMC public health*
Zhou, H., Wu, Y., Liu, C., Sun, C., Shi, Y., Zhang, L., Medina, A., Rozelle, S.
2020; 20 (1): 870
- **Parental Migration and Early Childhood Development in Rural China.** *Demography*
Yue, A., Bai, Y., Shi, Y., Luo, R., Rozelle, S., Medina, A., Sylvia, S.
2020
- **Visual impairment in rural and migrant Chinese school-going children: prevalence, severity, correction and associations.** *The British journal of ophthalmology*
Ma, Y. n., Zhang, X. n., He, F. n., Ma, X. n., Yi, H. n., Rose, N. n., Medina, A. n., Rozelle, S. n., Congdon, N. n.
2020
- **Using standardised patients to assess the quality of medical records: an application and evidence from rural China.** *BMJ quality & safety*
Wu, Y., Zhou, H., Ma, X., Shi, Y., Xue, H., Zhou, C., Yi, H., Medina, A., Li, J., Sylvia, S.
2019
- **Passive parenting and its Association with Early Child Development** *EARLY CHILD DEVELOPMENT AND CARE*
Luo, R., Jia, F., Yue, A., Zhang, L., Lyu, Q., Shi, Y., Yang, M., Medina, A., Kotb, S., Rozelle, S.
2019; 189 (10): 1709–23
- **Use of maternal health services among women in the ethnic rural areas of western China.** *BMC health services research*
Wu, Y., Zhou, H., Wang, Q., Cao, M., Medina, A., Rozelle, S.
2019; 19 (1): 179
- **Structural Equation Modeling (SEM) of Cysticercosis in School-Aged Children in Tibetan Rural Farming Areas of Western China: Implications for Intervention Planning.** *International journal of environmental research and public health*
Zhou, H., Wang, Q., Zhou, J., Li, T., Medina, A., Felt, S. A., Rozelle, S., Openshaw, J. J.
2019; 16 (5)
- **Structural Equation Modeling (SEM) of Cysticercosis in School-Aged Children in Tibetan Rural Farming Areas of Western China: Implications for Intervention Planning** *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*
Zhou, H., Wang, Q., Zhou, J., Li, T., Medina, A., Felt, S. A., Rozelle, S., Openshaw, J. J.
2019; 16 (5)
- **Breastfeeding and the Risk of Illness among Young Children in Rural China.** *International journal of environmental research and public health*
Li, S., Yue, A., Abbey, C., Medina, A., Shi, Y.
2019; 16 (1)
- **Concurrent validity of the Ages and Stages Questionnaire and the Bayley Scales of Infant Development III in China.** *PloS one*
Yue, A. n., Jiang, Q. n., Wang, B. n., Abbey, C. n., Medina, A. n., Shi, Y. n., Rozelle, S. n.
2019; 14 (9): e0221675

- **Breastfeeding and the Risk of Illness among Young Children in Rural China** *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*
Li, S., Yue, A., Abbey, C., Medina, A., Shi, Y.
2019; 16 (1)
- **Stimulation and Early Child Development in China: Caregiving at Arm's Length.** *Journal of developmental and behavioral pediatrics : JDBP*
Yue, A. n., Shi, Y. n., Luo, R. n., Wang, B. n., Weber, A. n., Medina, A. n., Kotb, S. n., Rozelle, S. n.
2019
- **Caregiver Depression and Early Child Development: A Mixed-Methods Study From Rural China.** *Frontiers in psychology*
Yue, A., Gao, J., Yang, M., Swinnen, L., Medina, A., Rozelle, S.
2018; 9: 2500
- **Do Infant Feeding Practices Differ Between Grandmothers and Mothers in Rural China? Evidence From Rural Shaanxi Province.** *Family & community health*
Yue, A., Zhang, N., Liu, X., Tang, L., Luo, R., Yang, M., Rozelle, S., Medina, A.
2018; 41 (4): 233–43
- **Effect of a Local Vision Care Center on Eyeglasses Use and School Performance in Rural China A Cluster Randomized Clinical Trial** *JAMA OPHTHALMOLOGY*
Ma, Y., Congdon, N., Shi, Y., Hogg, R., Medina, A., Boswell, M., Rozelle, S., Iyer, M.
2018; 136 (7): 731–37
- **Using daily text messages to improve adherence to infant micronutrient powder (MNP) packets in rural western China: A cluster-randomized controlled trial** *PLOS ONE*
Wang, X., Luo, R., Liu, C., Zhang, L., Yue, A., Medina, A., Rozelle, S.
2018; 13 (1): e0191549
- **Prevalence and risk factors for *Taenia solium* cysticercosis in school-aged children: A school based study in western Sichuan, People's Republic of China.** *PLoS neglected tropical diseases*
Openshaw, J. J., Medina, A. n., Felt, S. A., Li, T. n., Huan, Z. n., Rozelle, S. n., Luby, S. P.
2018; 12 (5): e0006465
- **EVIDENCE CONSISTENT WITH SCHOOL BASED TRANSMISSION OF <it>TAENIA SOLIUM</it> CYSTICERCOSIS IN PRIMARY SCHOOLS, SOUTHWEST CHINA**
Openshaw, J., Chedid, C., Medina, A., Felt, S., Li, T., Huan, Z., Rozelle, S., Luby, S.
AMER SOC TROP MED & HYGIENE.2018: 7
- **Rural education across China's 40 years of reform: past successes and future challenges** *CHINA AGRICULTURAL ECONOMIC REVIEW*
Yue, A., Tang, B., Shi, Y., Tang, J., Shang, G., Medina, A., Rozelle, S.
2018; 10 (1): 93–118
- **High prevalence of *Taenia solium* taeniasis and cysticercosis in Tibetan schoolchildren in western Sichuan, China: a cross-sectional study**
Li, T., Openshaw, J. J., Chen, X., Medina, A. C., Felt, S. A., Zhou, H., Rozelle, S. D., Luby, S. P.
ELSEVIER SCIENCE INC.2017: S89
- **The quality of primary care and correlates among grassroots providers in rural China: a cross-sectional standardised patient study**
Shi, Y., Yi, H., Zhou, H., Zhou, C., Xue, H., Rozelle, S., Medina, A., Sylvia, S.
ELSEVIER SCIENCE INC.2017: S16
- **The effect of a micronutrient powder home fortification program on anemia and cognitive outcomes among young children in rural China: a cluster randomized trial** *BMC PUBLIC HEALTH*
Luo, R., Yue, A., Zhou, H., Shi, Y., Zhang, L., Martorell, R., Medina, A., Rozelle, S., Sylvia, S.
2017; 17: 738
- **Effect of Deworming on Indices of Health, Cognition, and Education among Schoolchildren in Rural China: A Cluster-Randomized Controlled Trial.** *The American journal of tropical medicine and hygiene*
Liu, C., Lu, L., Zhang, L., Luo, R., Sylvia, S., Medina, A., Rozelle, S., Smith, D. S., Chen, Y., Zhu, T.
2017
- **Exploring the risk factors of suicidal ideation among the seniors in Shandong, China: A path analysis** *JOURNAL OF AFFECTIVE DISORDERS*

- Ge, D., Sun, L., Zhou, C., Qian, Y., Zhang, L., Medina, A.
2017; 207: 393-397
- **More Poop, More Precision: Improving Epidemiologic Surveillance of Soil-Transmitted Helminths with Multiple Fecal Sampling using the Kato-Katz Technique** *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*
Liu, C., Lu, L., Zhang, L., Bai, Y., Medina, A., Rozelle, S., Smith, D., Zhou, C., Zang, W.
2017; 97 (3): 870-75
 - **The gender gap among school children in poor rural areas of western China: evidence from a multi-province dataset** *INTERNATIONAL JOURNAL FOR EQUITY IN HEALTH*
Zhou, H., Mo, D., Zhou, C., Medina, A., Shi, Y., Zhang, L., Rozelle, S.
2016; 15
 - **Exploring the risk factors of suicidal ideation among the seniors in Shandong, China: A path analysis.** *Journal of affective disorders*
Ge, D., Sun, L., Zhou, C., Qian, Y., Zhang, L., Medina, A.
2016; 207: 393-397
 - **Impact of Text Message Reminders on Caregivers' Adherence to a Home Fortification Program Against Child Anemia in Rural Western China: A Cluster-Randomized Controlled Trial** *AMERICAN JOURNAL OF PUBLIC HEALTH*
Zhou, H., Sun, S., Luo, R., Sylvia, S., Yue, A., Shi, Y., Zhang, L., Medina, A., Rozelle, S.
2016; 106 (7): 1256-1262
 - **To Board or Not to Board: Evidence from Nutrition, Health and Education Outcomes of Students in Rural China** *CHINA & WORLD ECONOMY*
Wang, A., Medina, A., Luo, R., Shi, Y., Yue, A.
2016; 24 (3): 52-66
 - **Nutritional Deficiencies, the Absence of Information and Caregiver Shortcomings: A Qualitative Analysis of Infant Feeding Practices in Rural China.** *PloS one*
Yue, A., Marsh, L., Zhou, H., Medina, A., Luo, R., Shi, Y., Zhang, L., Kenny, K., Rozelle, S.
2016; 11 (4)
 - **Who are rural China's village clinicians?** *CHINA AGRICULTURAL ECONOMIC REVIEW*
Xue, H., Shi, Y., Medina, A.
2016; 8 (4): 662-676
 - **Catastrophic health expenditure: a comparative analysis of empty-nest and non-empty-nest households with seniors in Shandong, China.** *BMJ open*
Yang, T., Chu, J., Zhou, C., Medina, A., Li, C., Jiang, S., Zheng, W., Sun, L., Liu, J.
2016; 6 (7)
 - **Parental migration and smoking behavior of left-behind children: evidence from a survey in rural Anhui, China.** *International journal for equity in health*
Yang, T., Li, C., Zhou, C., Jiang, S., Chu, J., Medina, A., Rozelle, S.
2016; 15 (1): 127-?
 - **Maternal health services in China's western rural areas: uptake and correlates** *CHINA AGRICULTURAL ECONOMIC REVIEW*
Liu, C., Zhang, L., Shi, Y., Zhou, H., Medina, A., Rozelle, S.
2016; 8 (2): 250-276
 - **Alcohol consumption is higher among left-behind Chinese children whose parents leave rural areas to work** *ACTA PAEDIATRICA*
Jiang, S., Chu, J., Li, C., Medina, A., Hu, Q., Liu, J., Zhou, C.
2015; 104 (12): 1298-1304
 - **Alcohol consumption is higher among left-behind Chinese children whose parents leave rural areas to work.** *Acta paediatrica (Oslo, Norway : 1992)*
Jiang, S., Chu, J., Li, C., Medina, A., Hu, Q., Liu, J., Zhou, C.
2015; 104 (12): 1298-304
 - **China's Left-Behind Children: Impact Of Parental Migration On Health, Nutrition, And Educational Outcomes.** *Health affairs*
Zhou, C., Sylvia, S., Zhang, L., Luo, R., Yi, H., Liu, C., Shi, Y., Loyalka, P., Chu, J., Medina, A., Rozelle, S.
2015; 34 (11): 1964-1971
 - **Non-use of health care service among empty-nest elderly in Shandong, China: a cross-sectional study** *BMC HEALTH SERVICES RESEARCH*
Zhou, C., Ji, C., Chu, J., Medina, A., Li, C., Jiang, S., Zheng, W., Liu, J., Rozelle, S.

2015; 15

● **Soil-Transmitted Helminths in Southwestern China: A Cross-Sectional Study of Links to Cognitive Ability, Nutrition, and School Performance among Children.** *PLoS neglected tropical diseases*

Liu, C., Luo, R., Yi, H., Zhang, L., Li, S., Bai, Y., Medina, A., Rozelle, S., Smith, S., Wang, G., Wang, J.
2015; 9 (6)

● **Soil-Transmitted Helminths in Southwestern China: A Cross-Sectional Study of Links to Cognitive Ability, Nutrition, and School Performance among Children.** *PLoS neglected tropical diseases*

Liu, C., Luo, R., Yi, H., Zhang, L., Li, S., Bai, Y., Medina, A., Rozelle, S., Smith, S., Wang, G., Wang, J.
2015; 9 (6): e0003877

● **Survey using incognito standardized patients shows poor quality care in China's rural clinics.** *Health policy and planning*

Sylvia, S., Shi, Y., Xue, H., Tian, X., Wang, H., Liu, Q., Medina, A., Rozelle, S.
2015; 30 (3): 322-333

● **THE PREVALENCE OF ANEMIA IN CENTRAL AND EASTERN CHINA: EVIDENCE FROM THE CHINA HEALTH AND NUTRITION SURVEY** *SOUTHEAST ASIAN JOURNAL OF TROPICAL MEDICINE AND PUBLIC HEALTH*

Li, L., Luo, R., Sylvia, S., Medina, A., Rozelle, S.
2015; 46 (2): 306-321

● **Gut Instincts: Knowledge, Attitudes, and Practices regarding Soil-Transmitted Helminths in Rural China** *PLOS NEGLECTED TROPICAL DISEASES*

Lu, L., Liu, C., Zhang, L., Medina, A., Smith, S., Rozelle, S.
2015; 9 (3)

● **Gut instincts: knowledge, attitudes, and practices regarding soil-transmitted helminths in rural China.** *PLoS neglected tropical diseases*

Lu, L., Liu, C., Zhang, L., Medina, A., Smith, S., Rozelle, S.
2015; 9 (3)

● **Non-use of health care service among empty-nest elderly in Shandong, China: a cross-sectional study.** *BMC health services research*

Zhou, C., Ji, C., Chu, J., Medina, A., Li, C., Jiang, S., Zheng, W., Liu, J., Rozelle, S.
2015; 15: 294-?

● **Micronutrient deficiencies and developmental delays among infants: evidence from a cross-sectional survey in rural China.** *BMJ open*

Luo, R., Shi, Y., Zhou, H., Yue, A., Zhang, L., Sylvia, S., Medina, A., Rozelle, S.
2015; 5 (10): e008400

● **Text Messaging and its Impacts on the Health and Education of the Poor: Evidence from a Field Experiment in Rural China** *WORLD DEVELOPMENT*

Mo, D., Luo, R., Liu, C., Zhang, H., Zhang, L., Medina, A., Rozelle, S.
2014; 64: 766-780

● **Anemia and Feeding Practices among Infants in Rural Shaanxi Province in China** *NUTRIENTS*

Luo, R., Shi, Y., Zhou, H., Yue, A., Zhang, L., Sylvia, S., Medina, A., Rozelle, S.
2014; 6 (12): 5975-5991

● **GENDER INEQUALITY IN EDUCATION IN CHINA: A META-REGRESSION ANALYSIS** *CONTEMPORARY ECONOMIC POLICY*

Zeng, J., Pang, X., Zhang, L., Medina, A., Rozelle, S.
2014; 32 (2): 474-491

● **Do you get what you pay for with school-based health programs? Evidence from a child nutrition experiment in rural China** *ECONOMICS OF EDUCATION REVIEW*

Sylvia, S., Luo, R., Zhang, L., Shi, Y., Medina, A., Rozelle, S.
2013; 37: 1-12

● **Neglected Rural Public Health Issue: The Case of Intestinal Roundworms** *CHINA & WORLD ECONOMY*

Zhang, L., Cai, Y., Wang, X., Ma, X., Medina, A., Smith, D. S., Rozelle, S.
2013; 21 (3): 25-43

● **Multiple Micronutrient Supplementation Reduces Anemia and Anxiety in Rural China's Elementary School Children** *JOURNAL OF NUTRITION*

Zhang, L., Kleiman-Weiner, M., Luo, R., Shi, Y., Martorell, R., Medina, A., Rozelle, S.
2013; 143 (5): 640-647

- **Eggs versus chewable vitamins: Which intervention can increase nutrition and test scores in rural China? *CHINA ECONOMIC REVIEW***
Kleiman-Weiner, M., Luo, R., Zhang, L., Shi, Y., Medina, A., Rozelle, S.
2013; 24: 165-176
- **Eggs versus Chewable Vitamins: Which Intervention Can Increase Nutrition and Test Scores in Rural China?**
Kleiman-Weiner, M., Luo, R., Zhang, L., Shi, Y., Medina, A., Rozelle, S.
2013
- **Soil-Transmitted Helminth Infections and Correlated Risk Factors in Preschool and School-Aged Children in Rural Southwest China *PLOS ONE***
Wang, X., Zhang, L., Luo, R., Wang, G., Chen, Y., Medina, A., Eggleston, K., Rozelle, S., Smith, D. S.
2012; 7 (9)
- **Effectiveness of provider incentives for anaemia reduction in rural China: a cluster randomised trial *BRITISH MEDICAL JOURNAL***
Miller, G., Luo, R., Zhang, L., Sylvia, S., Shi, Y., Foo, P., Zhao, Q., Martorell, R., Medina, A., Rozelle, S.
2012; 345
- **The Limits of Health and Nutrition Education: Evidence from Three Randomized-Controlled Trials in Rural China *CESIFO ECONOMIC STUDIES***
Luo, R., Shi, Y., Zhang, L., Zhang, H., Miller, G., Medina, A., Rozelle, S.
2012; 58 (2): 385-404
- **Transfer paths and academic performance: The primary school merger program in china *INTERNATIONAL JOURNAL OF EDUCATIONAL DEVELOPMENT***
Mo, D., Yi, H., Zhang, L., Shi, Y., Rozelle, S., Medina, A.
2012; 32 (3): 423-431
- **Soil-Transmitted Helminth Infections and Correlated Risk Factors in Preschool and School-aged Children in Rural Southwest China**
Wang, X., Medina, A., Chen, Y., Wang, G., Luo, R., Zhang, L., Eggleston, K., Smith, D. Scott, Rozelle, S.
2012
- **Gender Inequality in Education in China: A Meta-Regression Analysis**
Zeng, J., Pang, X., Zhang, L., Medina, A., Rozelle, S.
2012
- **The Limits of Health and Nutrition Education: Evidence from Three Randomized Controlled Trials in Rural China**
Shi, Y., Zhang, L., Luo, R., Zhang, H., Miller, G., Medina, A., Rozelle, S.
2012; 58
- **Transfer Paths and Academic Performance: The Primary School Merger Program in China**
Mo, D., Yi, H., Zhang, L., Shi, Y., Rozelle, S., Medina, A.
2012
- **Effectiveness of provider incentives for anemia reduction in rural China: a cluster randomised trial**
Sylvia, S., Zhang, L., Luo, R., Miller, G., Shi, Y., Foo, P., Zhao, Q., Martorell, R., Medina, A., Rozelle, S.
2012; 345
- **Anaemia among Students of Rural China's Elementary Schools: Prevalence and Correlates in Ningxia and Qinghai's Poor Counties *JOURNAL OF HEALTH POPULATION AND NUTRITION***
Luo, R., Zhang, L., Liu, C., Zhao, Q., Shi, Y., Miller, G., Yu, E., Sharbono, B., Medina, A., Rozelle, S., Martorell, R.
2011; 29 (5): 471-485
- **Anemia in Rural China's Elementary Schools: Prevalence and Correlates in Ningxia and Qinghai's Poor Counties**
Luo, R., Zhang, L., Liu, C., Zhao, Q., Shi, Y., Miller, G., Yu, E., Sharbono, B., Rozelle, S., Medina, A., Martorell, R.
2011