



**Science
Societies**

Theses and dissertations, 2023–2024

February 25, 2025



ASA

American Society of Agronomy



CSSA

Crop Science Society of America



SSSA

Soil Science Society of America

For more than 30 years, ASA, CSSA, and SSSA have published thesis and dissertation titles of graduates in the agronomic, crop, soil, and related environmental science disciplines. This year, we received 85 submissions from 44 universities.

Congratulations to all of our master's and Ph.D. graduates. We encourage you to take full advantage of membership in the Societies as you pursue your professional careers. Your hard work, dedication, and perseverance has paid off, and an exciting career in our sciences now begins. ASA, CSSA, and SSSA are here for you every step of the way!

Name	Institution	Graduation	Advisers	Thesis/dissertation title
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Doctorate Degrees in Agronomic Science Fields

ASA Land Management and Conservation Section

ASA Agronomic Production Systems Section

Antar, Mohammed	McGill Univ.	5/6/2024	D. Smith, P. Seguin	Microbe-Coat Fertilizers: A N Technology fo Agricultural Mi Inoculation.
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Carkner, Michelle K.	Univ. of Manitoba	6/4/2024	M. Entz	An Evaluation of Farmer-Selected Spring Wheat Genotypes from Canada's First Participatory Breeding Program
Inci, Deniz	Univ. of California-Davis	6/13/2024	K. Al-Khatib	Characterization of Florpyrauxifen Herbicide in Water-Seeded Cotton
Miller, Phearen Kit	Utah State Univ.	5/2/2024	J. Norton	Contrasting Nitrogen Sources Impact Nitrogen Use Efficiency and Health Under Corn Production in Semi-Arid Environment.

ASA Climatology and Modeling Section

Carbajal Carrasco, Mariella	North Carolina State Univ.	5/4/2024	N. Nelson	Developing State- Process-Based Machine Learning Models for Predicting Sweetpotato Yield
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ASA Environmental Quality Section

Pasket, Amber Marie	Kansas State Univ.	12/8/2023	P. Tomlinson	Seasonal Dyna and Impact of Fertilizer Treat and Cover Cro Soil Health Ind in a No-Till Co Soybean Syste
Salceda, Miguel	Univ. of Missouri	8/7/2023	R. P. Udawatta, S. H. Anderson	Agroforestry a Cover Crops fo Improving Surf Water and Groundwater C
Salehin, Sk. Musfiq Us	Texas A&M Univ.	5/13/2024	N. Rajan	Impact of Orga Management P on Soil Greenh Gas Emissions Cotton-Winter Crops System East-Central T
Sullivan, Tina Marie	Utah State Univ.	5/3/2024	M. Yost	Soil Additives Alternative Cro Drought Defen Intermountain

Doctorate Degrees in Crop Science Fields

CSSA Crop Breeding and Genetics Division (C-1)

Kunze, Karl H.	Cornell Univ.	8/1/2023	M. Sorrells, S. Alcaine, G. Bergstrom	Genomic and Phenotypic Characterization of Malting Barley Naked Multi- Barley as Winter for New York S
Williams, Jessica Lynn	Montana State Univ.	5/10/2024	J. Sherman	Consider the R Examining Barle Belowground i Search for Ada

CSSA Crop Physiology and Metabolism Division (C-2)

Adhikari, Bikash	Mississippi State Univ.	8/15/2023	R. Bheemanahalli	Response of L <i>Lactuca sativa</i> Salt Stress.
Bhattarai, Bishwoyog	Texas Tech Univ.	12/16/2023	H. Laza	Understanding Morphophysio Basis and Biom Allocation Stra of Legumes Un Water-Deficit Conditions.

Costa Netto,
Jose Ribamar
Univ. of Missouri
5/10/2024
F. Fritschi
Soybean Stem
Nutrient Dynar
Water-Use Eff
and Shoot Hyc
Pathway Chan
Along 90 Year
Breeding.

de Camargo
Santos, Aline
Univ. of Florida
8/16/2023
B. Schaffer
Priming and St
Memory to Imp
Water Use Effi
Peanut.

Kaur, Navneet
Univ. of Georgia
8/7/2023
J. Snider
Photosynthetic
Thermotoleran
Physiological
Contributors t
in Diverse Cot
Genotypes.

Spivey,
William
Walker
Clemson Univ.
8/11/2023
S. Narayanan
Heat Stress-In
Lipid Alteratio
Peanut.

CSSA Crop Ecology, Management and Quality Division (C-3)

Ortmeier-
Clarke Haleigh
Jo
Univ. of
Wisconsin-
Madison
5/12/2024
S. Conley
Evaluating Sm
Production Sys
the North Cen
United States.

Westbrook, Sophie	Cornell Univ.	5/1/2024	A. DiTommaso	Ecological Approaches to Enhancing Native Crop Biodiversity and Ecosystem Services on Farms.
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CSSA Turfgrass Science Division (C-5)

Boeri, Pablo Agustin	Univ. of Florida	12/19/2023	J. B. Unruh	Ecosystems Services and Trade-Offs in Alternative Urban Landscape Conversions.
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Boyle, Paige	Utah State Univ.	12/15/2023	K. Kopp	Reducing Inputs and Adding Value to Turfgrass Systems Through Clover Inclusion and Fertilizer Growth-Promoter (<i>Rhizobacteria</i>) Applications.
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Gore, Adam W.	Clemson Univ.	12/20/2023	L. McCarty	Impact of Cover Crops on Containing Pesticides and Irrigation in Hybrid Bermudagrass.
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Peppers, John Michael	Virginia Tech Univ.	12/15/2023	S. Askew	Evaluation of M Techniques to Annual Grasse Intensively Ma Turfgrass Syst
Taylor, Jacob William	Clemson Univ.	8/10/2023	L. McCarty	Biology and He Resistance Characteristic Various Annua Bluegrass Biot from Across th United States.

CSSA Forage and Grazinglands Division (C-6)

Baral, Rudra	Kansas State Univ.	8/11/2023	D. Min	Assessing Yield Quality, Water Efficiency and Profitability of Crops in Rainfe Agricultural Management S
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Kubesch, Virginia Tech 11/16/2023 B. F. Tracy Evaluating Nat
Jonathan Univ. Warm-Season
Omar Cole and Wildflower

Mixtures for Be
Cattle Product
the Mid-Atlant

Rusch, Univ. of Florida 8/15/2023 C. H. Wilson
Hannah
Loretta

Diversification
Subtropical Pa
to Promote Pro
and Other Eco
Services.

CSSA Genomics, Molecular Genetics and Biotechnology Division (C-7)

Lam, Yasmine Univ. of 8/28/2023 I. D. Godwin, K.
Queensland Massel, A. K.
Borrell

Building Blocks
Designer Ideot
Dissecting Plan
Architecture G
Using CRISPR/

Wright, Hallie Univ. of Georgia 5/12/2024 K. Devos

Identifying Gen
Factors Assoc
With Finger Mi
Resistance.

CSSA Plant Genetic Resources Division (C-8)

Yang, Chunxiao	Univ. of Alberta	7/15/2023	S. Strelkov, S. Hwang	Evaluation of E Root Architect Traits.
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Doctorate Degrees in Soil Science Fields

SSSA Nutrient Management and Soil and Plant Analysis

Bohl Bormann, Nancy Lea	Univ. of Minnesota-Twin Cities	6/28/2024	M. L. Wilson, E. L. Cortus	Manure Nutrie Compilation an Analysis for Ag and Environme Applications
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Rawal, Ashmita	Univ. of Wisconsin- Madison	8/27/2023	M. D. Ruark, R. A. Lankau	Nitrogen Uptak Nitrogen Dema Potatoes on Sa Soil.
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SSSA Pedology

Bower, Jennifer	Univ. of Vermont	8/28/2023	D.S. Ross	Weathering Gr in Podzols of t Northeastern U
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Colopietro, Daniel John	Univ. of Florida	12/10/2023	A. Bacon	Investigating Properties of S Organic Matte Role, and Resp Pedogenesis in Across Spatial
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SSSA Soil and Water Management and Conservation

Amsili, Joseph P.	Cornell Univ.	5/20/2024	H. van Es, J. Lehmann, M. Ryan	Effects of Management and Inherent Properties on Soil Health Indicators and Soil Organic Carbon Stocks
Vieira-Filho, Leandro Otavio	Univ. of Florida	8/15/2023	M. L. Silveira	Soil Phosphorus Management in Subtropical Grassland Ecosystems: Agronomic and Environmental Implications.

SSSA Soil Biology and Biochemistry

Bonini Pires, Carlos Augusto	Kansas State Univ.	12/15/2023	C. W. Rice	From Microbes to Farmers Perspectives: Enhancing Soil Health Through On-Farm Sustainable Agricultural Practices
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Erhunmwunse, Univ. of Florida 8/15/2023 S. Liao, Soil Microbial D
Adesuwa and Communit
Sylvia Composition a

Associated Nu
Cycling Activit
Rhizoma Pean
Based Bahiagr
Pastures Acros
Florida.

Renz, Peter Ohio State Univ. 5/21/2024 R. Dick, R. Lal,
B. Slater

Biochemical S
Health Indicat
Scores based
Multivariate Sc
Yield Prediction

SSSA Soil Chemistry

Anderson, Univ. of 9/1/2023 M. Keiluweit
Cam Massachusetts-
Amherst

Mineral and Me
Constraints on
Cycling Within
Export From
Mountainous
Floodplain Soil

Dam, Than Thi Univ. of 8/30/2023 M. Zhu Phosphorus and
Ngoc Wyoming Dynamics in Soils
Aeolian Dust Affects
Different
Environmental
Gradients.

Moller, Univ. of 8/15/2023 D. Jaisi Hydrolysis of
Spencer Delaware Glyphosate and
Organic Phosphorus
Compounds and
Associated Isotopic
Effects.

Obeidy, Univ. of 6/15/2024 M. Polizzotto, Influence of
Chelsea Oregon–Eugene Q. Jin, J. Landscape Weathering
and Fire on Soil
Contaminant
Reactivity in Western
Oregon.

SSSA Soil Fertility and Plant Nutrition

Amissah, Univ. of Georgia 12/15/2023 H. Y. Sintim Adaptive Nutrient
Management to
Enhance the
Sustainable Production
of Row Crops.

Fleuridor, Louceline	Ohio State Univ.	8/21/2023	S. Demyan, S. Culman	Soil Health and Variability and Connections to Productivity.
Mahato, Gena Ram	South Dakota State Univ.	12/13/2023	P. Kovacs, T. Nleya	Effect of Foliar Preplant Sulfur Application on Soybean Nutri Uptake, Yield, a Seed Protein a Content.
Nepal, Jaya	Univ. of Florida	12/8/2023	Z. He, C. Lazcano	Soil Biogeoche in California Processing Tor Under Deficit I
Sabbagh, Manuel Joseph	Univ. of Minnesota-Twin Cities	8/31/2023	M. L. Wilson, P. H. Pagliari	Integrating Liq Manure and Co Crops to Meas Their Impact o Health, Nutrien Cycling, and Agronomic Performance I Upper Midwes

Anand, Princeton Univ. 11/18/2023 A. Porporato Representing t
Shashank and Formation
Kumar Earth's Topogr

Under Natural
Anthropogenic

de Melo, Univ. of Sao 6/18/2024 Q. de Jong Process-based
Marina Paulo Modeling of Ro
van Lier, J. C.
van Dam Water Uptake
Plant Available
at the Field Sc

Master's Degrees in Agronomic Science Fields

ASA Agronomic Production Systems Section

Bajwa, Texas Tech 5/10/2024 S. Singh Optimizing Ind
Preetaman Univ. Hemp Cultivat
Comprehensiv
Analysis of Agr
Practices in W
Texas.

Baker, Megan	Utah State Univ.	5/2/2024	M. Yost	Comparison of and Public Lab Fertilizer Recommendat Impacts on Fie Production and Test Results.
King, Jonathon	Michigan State Univ.	12/12/2023	K. Cassida, E. Burns, S. Snapp	The Effects of Grazing of Coo Crops on Soil H Indicators and Subsequent C and Quality.
Morata, Murilo T.	Auburn Univ.	5/7/2024	E. A. Bohac Francisco, B. Ortiz, S. Brown	Planting Date a Seeding Rate E Corn Yield for Decisions in Al
Nnadi, Chiamaka	McNeese State Univ.	12/8/2023	B. Storer	Research and Outreach on Sustainable Watermelon Production Uti Local Agricultu Products.

Rice, Josie
Ferguson
Oklahoma State
Univ.
12/12/2023
J. Lofton
Maximizing Land
and Productivity
Oklahoma: A
Comparison of
Intercrop, and
Crop Systems

Tibbs, Reagan
Illinois State
Univ.
12/16/2023
M. Boerngen,
N. Heller, D.
Bullock
Examining Farm
Perceptions of
Precision Agricul-
Technologies and
Interest in Con-
On-Farm Preci-
Experimentation

Yasmin,
Farzana
Univ. of Guelph
10/10/2023
L. L. Van Eerd,
J. Nasielski
Effect of Bio-s
Tillage and Cov-
Mixtures on Co-
Crop Biomass
Subsequent G-
Corn (*Zea may*
Yield in Ontario

ASA Global Agronomy Section

Lal, Ishani
Univ. of
Nebraska-
Lincoln
5/18/2024
N. Brozović
Irrigation-as-a
for Smallholder
Farmers.

Master's Degrees in Crop Science Fields

CSSA Crop Breeding and Genetics Division (C-1)

Dhakal, Anup	Univ. of Illinois	12/15/2023	J. D. Arbelaez	Implementing Trait Genomic Selection to Improve Grain Milling Quality in Oat.
Kaur, Sehijpreet	Univ. of Florida	12/12/2023	G. Kakani	Hyperspectral Imaging for High-Throughput Phenotyping in Wheat Breeding Nurseries.
Niaz, Ahsan	Univ. of Reading	12/6/2023	A. Ainslie	Studying the Genetic Underpinnings of Winter Wheat Adaptation in a Population in F

CSSA Crop Physiology and Metabolism Division (C-2)

Hanson, Brendan Jason	Purdue Univ.	12/17/2023	T. Vyn	Representation of Whole-Plant Nitrogen Status with Spectral Indices of Individual Leaves at Multiple Growth Stages in Maize
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Vennam, Ranadheer Reddy Reddy	Mississippi State Univ.	8/8/2023	R. Bheemanahalli	Impact of Soil Stress at Differ Phases of Corn and Developm
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CSSA Turfgrass Science Division (C-5)

Peddigari, Shravya	Univ. of Maryland	7/1/2023	M. Caroll	Understanding and Conventio Management F and Rhizosphe Microbiome fo Turf in Marylan
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No Division Specified

Sureshbabu, Bijula	North Dakota State Univ.	5/11/2024	F. Mathew	Evaluation of F Sensitivity and of Resistance Selected <i>Diap</i> Species in Soy <i>Glycine max L.</i>
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Master's Degrees in Soil Science Fields

SSSA Soil and Water Management and Conservation

Lal, Ishani Univ. of Nebraska-Lincoln 5/18/2024 H. Yang In-field Optimization of Soil Water Parameters for Irrigation Scheduling

Petty, Adam Kansas State Univ. 12/13/2023 D. Presley Soil Health and Methods Evaluation: Producer's Field Central Kansas

SSSA Soil Biology and Biochemistry

Carrell, Marian Oklahoma State Univ. 5/10/2024 P. Alderman, A. Jilling, M. Foltz Exploring the Interactive Role of Particulate Organic Matter and Microbes Associated with Organic Matter on Soil Availability.

Cook, Austin Mississippi State Univ. 8/8/2023 B. Baker, J. Brooks, D. Morin Investigating Potential Indicators of Soil Health Through Microbiome Response to Environmental Anthropogenic Stressors.

Emerson, Courtney Marie	Univ. of California–Davis	9/15/2023	M. Nocco, C. Lazcano	Soil Biogeoche in California Processing Tor Under Deficit I
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SSSA Soil Fertility and Plant Nutrition

Roa Acosta, Gustavo Adolfo	Kansas State Univ.	5/10/2024	D. R. Diaz	Evaluating Diag Tools for Phos and Sulfur Management i
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SSSA Soil Physics and Hydrology

Hegde, Pramod	Univ. of Georgia–Athens	8/18/2023	N. Gaur	The Role of So Moisture in So Respiration.
Tangen, Bailey	Univ. of Minnesota–Twin Cities	11/29/2023	A. Cates	Soil Health Sys Impacts on So Hydraulic Func Southern Minn

SSSA Soils and Environmental Quality

Dossou, Anselme	North Carolina State Univ.	6/18/2024	L. Gatiboni	Impact of Salt Intrusion on So Yield Reductio Albemarle–Par North Carolina
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SSSA Wetland Soils

Manetta, Joe	Univ. of Rhode Island	12/31/2023	M. Stolt	Distribution and Variability of B Carbon in Tida Soils of Southe England.
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Bachelor's Degrees in Crop Science Fields

CSSA Plant Genetic Resources Divison (C-8)

Gil, Adriana María	Univ. del Valle de Guatemala	1/28/2024	M. Alarcón, P.Herrera, K. Rios-Gonzalez	Implementación protocolo de c de tejidos para propagación d mirasol (<i>Capsi annuum</i>) e identificación genes asociad producción de
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