The Heart of the Commonwealth

At New England's second-largest city, Worcester makes an ideal home base for Clark's ambitious entrepreneurial and collaborative spirit, and commitment to progress are transforming lives in the neighborhood and around the world. Visit www.clarku.edu/gradapply for dates and admission requirements.

GET STARTED

Join our global community of passionate scholars whose creativity, intellectual daring, collaborative spirit, and commitment to progress are transforming lives in the neighborhood and around the world. Since 1887, Clark has been home of the annual Van Pelt Symposium, one of the world’s most advanced Earth observation and spatial analysis and technology to address crucial issues concerning socio-economic development and environmental science and policy. You will acquire strong working knowledge of remote sensing, spatial analysis, decision science, image processing, dynamic modeling, time series analysis, geostatistics, and the global positioning system. Special opportunities also exist in Conservation and Earth System Science or GIScience and Remote Sensing. The Remote Sensing program draws from social theory, theoretical and methodological approaches — from economic sociology to political geography — to examine the processes that drive change, conflict, innovation, and uneven development across the world. You will acquire the skills needed to analyze the forces that structure and guide the development of communities, industries, cities, and the global economy.

Areas of Expertise

- Environmental sociology
- Human dimensions of global environmental change
- International development
- Natural resource extraction
- Socio-environmental movements and conflicts
- Sustainability, land use and environmental change
- Vulnerability, resilience and hazards
- Political ecology

Earth System Science

Clark University’s Earth System Science geographers benefit from an interdisciplinary approach to studying the complex, interrelated physical and biological components of the Earth’s land surface, atmospheres, biospheres, cryospheres, and oceans, placing an emphasis on observing, understanding, and predicting global environmental changes.

Areas of Expertise

- Terrestrial ecosystems and global change
- Climate and global environmental change
- Paleoclimate change
- Forest ecology
- Terrestrial and marine biogeochemistry
- Landscapes and disturbance ecology
- Surface water and cold-region hydrology

Urban-Economic Geography

At Clark University, we draw on a diverse range of theoretical and methodological approaches — from economic sociology to political geography — to examine the processes that drive change, conflict, innovation, and uneven development across the world. You will acquire the skills needed to analyze the forces that structure and guide the development of communities, industries, cities, and the global economy. Since 1925, Clark has been home of Economic Geography, an internationally peer-reviewed, cutting-edge research journal.

Areas of Expertise

- Urban, industrial, and regional development
- International development and political economy
- Innovation and entrepreneurship
- Social movements, legal geographies, and place-making processes
- Critical race and social theory
- Urban politics
- Globalization and its uneven consequences
- Critical mobilities
- Sustainability and technological change

People. Planet. Purpose.

There’s never been a better time to be a change-maker.

clarku.edu/geography
Consistently ranked as one of the top ten research-led geography programs by the U.S. National Research Council, Clark University offers you the opportunity to train with experts in the field and participate in world-class research on the university and graduate levels. Join other Clark geographers in pursuing a rigorous academic program characterized by excellence and impact. Our graduates creatively work across the lines between disciplines and within geographical fields to address the challenges that humanity faces. We are inherently collaborative in our approach, and the School’s research and graduate training is organized around four subfields. They include:

- Urban-Economic Geography
- Human-Environment Geography
- Earth System Science
- GIScience and Remote Sensing

**Areas of study**

The Graduate School of Geography encourages study at the cutting edge of geography. The creativity at work across the links between disciplines and within geographical fields is the drive that unites the students of the School. These links are inherently defined by social, political, and environmental change. Our collaborative, interdisciplinary approach enables our students to tackle the challenges that humanity faces. We are inherently collaborative in our approach, and the School’s research and graduate training is organized around four subfields. They include:

- Urban-Economic Geography
- Human-Environment Geography
- Earth System Science
- GIScience and Remote Sensing

**Undergraduate programs**

**B.A. in Geography**

- GIScience and Remote Sensing
- Human-Environment Geography
- Urban-Economic Geography

**Graduate Programs**

- PhD in Geography
- M.S. in Geographic Information Science
- Acclerated B.A./M.S. program in Geographic Information Science
- 3-year M.S. program in Geographic Information Science

**EARTH SYSTEM SCIENCE**

Karen Frey, Ph.D.

- Carbon and global environmental change, paleo-climate change, land-cover change, biodiversity and resilience, biogeochemistry, ice core variability, marine environment, spatial analysis (also in GIScience and Remote Sensing)

Dinuk Khukhunli, Ph.D.

- Human geography, environmental change, disturbance ecology

Christopher A. Williams, Ph.D.

- Land surface hydrology, mesoscale climate, weather, global change

**GIScience and REMote SENSING**

J. Ronald Eastman, Ph.D.

- Information systems, remote sensing, cartography

Lyndon Eales, Ph.D.

- Global change, agricultural ecology, land change, development, Earth observations in Ukraine

Robert Gillison Pender, Jr., Ph.D.

- GIScience, quantitative environmental modeling, land change research, spatial statistics

John Rogers, Ph.D.

- Land use change, urban and environmental change, GIScience (also in Earth System Science)

Renece Surface, Ph.D.

- GIScience, remote sensing, spatial distribution

**HUMAN-ENVIRONMENT GEOGRAPHY**

Anthony Baskin, Ph.D.

- Development geography, political ecology, social movements, education-research extraction, agrarian change

Gisle and Jostein Andersen, Ph.D.

- Political economy of development, sustainable development, developing economies

Economic geography, technological change, digital technology and culture

J. Ronald Eastman, Ph.D.

- Economic geography, technological change, digital technology and culture

**URBAN-ECONOMIC GEOGRAPHY**

- Urban geography, information,猛lization, postindustrial and critical race theory

Mark Drennen, Ph.D.

- Urban politics, critical urban theory, gentrification, urban development, state restructuring

Deborah A. Martin, Ph.D.

- Urban geography, political economy, environmental justice, critical social theory (also in Urban-Economic Geography)

James McCarthy, Ph.D.

- Political ecology, political economy, environmental justice, policy, and governance, social theory (also in Urban-Economic Geography)

Sam Reish, Ph.D.

- Political ecology, environmental assessment and management, spatial analysis, quantitative and dynamic modeling, environmental policy, coastal hazards from climate change, population prevention in communities, sustainability science

**GEOGRAPHY**

(continued)

- Economic geography, technological change, postindustrial development, geographic inquiry (also in Human-Environment Geography)

- J. Ronald Eastman, Ph.D.

- Economic geography, information,猛lization, postindustrial and critical race theory

- J. Ronald Eastman, Ph.D.

- Economic geography, technological change, digital technology and culture

- J. Ronald Eastman, Ph.D.

- Economic geography, technological change, digital technology and culture

- J. Ronald Eastman, Ph.D.

- Economic geography, technological change, digital technology and culture

- J. Ronald Eastman, Ph.D.

- Economic geography, technological change, digital technology and culture

- J. Ronald Eastman, Ph.D.

- Economic geography, technological change, digital technology and culture

- J. Ronald Eastman, Ph.D.
**AEROSPACE GEOPHYSICS**
- Climate change
- Atmospheric sciences
- Oceanography

**U.S. NATIONAL ACADEMY OF SCIENCES**
- Climate change
- Atmospheric sciences
- Oceanography

**GISCIENCE AND REMOTE SENSING**
- Remote sensing
- Spatial analysis
- Digital mapping

**CLIMATE CHANGE**
- Global warming
- Climate modeling
- Adaptation strategies

**SPACE EXPLORATION**
- Planetology
- Space biology
- Robotics

**ENVIRONMENTAL SCIENCE**
- Conservation biology
- Biodiversity
- Ecosystems

**SUSTAINABLE DEVELOPMENT**
- Green technologies
- Renewable energy
- Sustainable practices

**URBAN GEOGRAPHY**
- Urban planning
- Urban policy
- Urban geography

**ECONOMIC GEOGRAPHY**
- Economic development
- Global economy
- International trade

**HUMAN-ENVIRONMENT GEOGRAPHY**
- Cultural landscapes
- Social change
- Human-environment interactions

**CLIMATE CHANGE**
- Global warming
- Climate modeling
- Adaptation strategies

**WATER RESOURCES**
- Hydrology
- Aquatic ecosystems
- Water management

**ECOLOGICAL ENGINEERING**
- Ecological restoration
- Sustainable ecosystems
- Ecosystem design
**Get Started**

Join our global community of passionate scholars whose creativity, intellectual daring, collaborative spirit, and commitment to progress are transforming lives in the neighborhood and around the world. Visit clarku.edu/gradapply for dates and admission requirements.

**People. Planet. Purpose.**

Clark University | Jefferson Academic Center, Room 220  |  950 Main Street  | Worcester, MA 01610  
508-793-7336 | geography@clarku.edu

**Purpose.**

At Clark, our mission is to educate and inspire you to be a change-maker.

There’s never been a better time to be a change-maker.

clarku.edu/gradapply

**PEOPLE. PLANET. PURPOSE.**

The Heart of the Commonwealth

As New England’s second largest city, Worcester makes an ideal home base for Clark’s ambitious entrepreneurial and interdisciplinary programs, less than an hour away from Boston and Providence.

**URBAN-ECONOMIC GEOGRAPHY**

At Clark University, we draw on a diverse range of theoretical and methodological approaches—from economic sociology to political geography—to examine the processes that drive change, conflict, innovation, and urban development across the world. You will acquire the skills needed to analyze the forces that structure and guide the development of communities, industries, cities, and the global economy.

**Earth System Science**

Clark University Earth System Science geographers benefit from an interdisciplinary approach to study the complex, interrelated physical and biological components of the Earth’s land surface, atmosphere, biosphere, cryosphere, and oceans, placing an emphasis on observing, understanding, and predicting global environmental changes.

**Remote Sensing of Forest and Agricultural Ecosystems**

Remote sensing of forest and agricultural ecosystems, including crop vegetation, tree species composition, and forest health at both small and large scales, is a key tool for monitoring forest and agricultural ecosystems.

**Surface Water and Cold Region Hydrology**

Surface water and cold region hydrology are an important aspect of the Earth's hydrological cycle and are critical for understanding regional and global climate change.

**Remote Sensing of the Cryosphere**

Remote sensing of the cryosphere is crucial for monitoring and understanding the Earth's frozen regions, including glaciers, ice sheets, and snow-covered surfaces.

**Remote Sensing of Forest Ecosystems**

Remote sensing of forest ecosystems is essential for understanding and managing forest resources, including carbon sequestration, biodiversity, and forest health.

**Remote Sensing of the Water Cycle**

Remote sensing of the water cycle is vital for understanding and managing water resources, including precipitation, evaporation, and runoff.

**Software/System Development**

Software/system development is a critical component of modern geospatial applications, allowing for the creation of custom tools and solutions.

**Image Time Series Analysis**

Image time series analysis is a powerful tool for monitoring changes over time, such as land use changes or vegetation dynamics.

**Image Classification**

Image classification is a fundamental technique in remote sensing, used to identify and map land cover and land use.

**Land Change Mapping and Modeling**

Land change mapping and modeling are essential for understanding and predicting changes in land use and land cover.

**Conservation GIScience**

Conservation GIScience is a rapidly growing field that combines geospatial technologies with conservation biology.

**Environmental Ethics**

Environmental ethics is a critical component of understanding and addressing environmental issues, particularly in the context of human-environment interactions.

**Remote Sensing of Urban Areas**

Remote sensing of urban areas is essential for understanding urban growth patterns, land use changes, and the impacts of urbanization.

**Remote Sensing of Remote Areas**

Remote sensing of remote areas is crucial for monitoring and understanding regions that are difficult to access.

**Remote Sensing of the Atmosphere**

Remote sensing of the atmosphere is critical for understanding and predicting atmospheric phenomena and their impacts on the Earth system.
Delve Deeper

**GEOGRAPHY AND REMOTE SENSING**

GIScience and Remote Sensing geographers apply the world's most advanced earth observation and spatial analytical technologies to address crucial issues concerning socio-economic development and environmental science and policy. You will acquire strong working knowledge of remote sensing, spatial analysis, decision science, image processing, dynamic modeling, time series analysis, geostatistics, and the global positioning system. Special opportunities also exist in Conservation and Earth System Science or GIScience and Remote Sensing Image Processing software development.

**AREAS OF EXPERTISE**

- *Conservation GIScience*
- *Land change mapping and modeling*
- *Image time series analysis*
- *Image classification*
- *Spatial decision support*
- *Software/System development*
- *Remote sensing of the cryosphere*
- *Remote sensing of forest and agricultural ecosystems*

**HUMAN-ENVIRONMENT GEOGRAPHY**

Human-Environment geographers draw from social theory, ecological sciences, land system science, development studies, economics, law, and ethics to examine relationships between people and environments. We focus on how these relationships influence processes shaping (1) land use, land cover and their long-term legacies; (2) the use and control of natural resources; (3) socio-ecological vulnerability and resilience; and (4) patterns of environmental justice, conflict and uneven development.

**AREAS OF EXPERTISE**

- *Environmental justice and practice*
- *Food systems and agriculture*
- *Human dimensions of global environmental change*
- *International development*
- *Natural resource extraction*
- *Socio-environmental movements and conflicts*
- *Sustainability, land use and environmental change*
- *Vulnerability, resilience and hazards*
- *Political ecology*

**EARTH SYSTEM SCIENCE**

Clark University Earth System Science geographers benefit from an interdisciplinary approach to study the complex, interrelated physical and biological components of the Earth’s land surface, atmosphere, biosphere, cryosphere, and oceans, placing an emphasis on observing, understanding, and predicting global environmental changes.

**AREAS OF EXPERTISE**

- *Terrestrial ecosystems and global change*
- *Climate and global environmental change*
- *Polar climate change*
- *Forest ecology*
- *Terrestrial and marine biogeochemistry*
- *Landscape and disturbance ecology*
- *Surface water and cold-region hydrology*

**URBAN-ECONOMIC GEOGRAPHY**

At Clark University, we draw on a diverse range of theoretical and methodological approaches—from economic sociology to political geography—to examine the processes that drive change, conflict, innovation, and uneven development across the world. You will acquire the skills needed to analyze the forces that structure and guide the development of communities, industries, cities, and the global economy. Since 1915, Clark has been home of Economic Geography, an internationally peer-reviewed, cutting-edge research journal.

**AREAS OF EXPERTISE**

- *Urban, industrial, and regional development*
- *International development and political economy*
- *Innovation and entrepreneurship*
- *Social movements, legal geographies, and place-making processes*
- *Critical race and social theories*
- *Urban politics*
- *Globalization and its uneven consequences*
- *Critical mobilities*
- *Sustainability and technological change*

Join our global community of passionate scholars whose creativity, intellectual daring, collaborative spirit, and commitment to progress are transforming lives in the neighborhood and around the world. Visit clarku.edu/gradapply for dates and admission requirements.

**Financial Support**

At Clark, we provide tuition remission and stipend during the academic year to every doctoral student accepted into the program who does not hold an outside fellowship or stipend. This aid is renewable each year for up to four years, as long as the student remains in good academic standing and in making timely progress. The tuition remission and stipend awards are not based on financial need; it has been our policy to fund graduate students in the Ph.D. program equally because it contributes to a sense of community among our students. The stipend for all academic year fellowships is $30,000.

There’s never been a better time to be a change-maker.

clarku.edu/gradapply

**The Heart of the Commonwealth**

As New England’s second-largest city, Worcester makes an ideal home base for Clark’s ambitious entrepreneurial and collaborative endeavor. Here you will be at the forefront that make Worcester the ideal destination for graduate student success.

- **NEW YORK CITY**
  - 20 min drive to New York City
  - 19k students at 12 colleges and universities
  - Top 10 U.S. city to live and launch a career, CNBC.com

- **PROVIDENCE/PROVIDENCE**
  - 1hr drive to Providence
  - 12k students at 8 colleges and universities
  - 110k people

- **WORCESTER/BOSTON**
  - 47 mi (1 hr)
  - 13k students at 7 colleges and universities
  - 184k people

- **BOSTON/NEW HAMPSHIRE**
  - 175 mi (3.5 hrs)
  - 1.78 million people

A variety of additional fellowships are also available. Please contact us for more information.

**GET STARTED**

508-793-7336 | geography@clarku.edu

clarku.edu/ geography

Since 1925, Clark has been home of Economic Geography, an internationally peer-reviewed, cutting-edge research journal.

**PURPOSE.**

Join our global community of passionate scholars whose creativity, intellectual daring, collaborative spirit, and commitment to progress are transforming lives in the neighborhood and around the world. Visit clarku.edu/gradapply for dates and admission requirements.

**Financial Support**

At Clark, we provide tuition remission and stipend during the academic year to every doctoral student accepted into the program who does not hold an outside fellowship or stipend. This aid is renewable each year for up to four years, as long as the student remains in good academic standing and in making timely progress. The tuition remission and stipend awards are not based on financial need; it has been our policy to fund graduate students in the Ph.D. program equally because it contributes to a sense of community among our students. The stipend for all academic year fellowships is $30,000.

There’s never been a better time to be a change-maker.

clarku.edu/gradapply

**The Heart of the Commonwealth**

As New England’s second-largest city, Worcester makes an ideal home base for Clark’s ambitious entrepreneurial and collaborative endeavor. Here you will be at the forefront that make Worcester the ideal destination for graduate student success.

- **NEW YORK CITY**
  - 20 min drive to New York City
  - 19k students at 12 colleges and universities
  - Top 10 U.S. city to live and launch a career, CNBC.com

- **PROVIDENCE/PROVIDENCE**
  - 1hr drive to Providence
  - 12k students at 8 colleges and universities
  - 110k people

- **WORCESTER/BOSTON**
  - 47 mi (1 hr)
  - 13k students at 7 colleges and universities
  - 184k people

- **BOSTON/NEW HAMPSHIRE**
  - 175 mi (3.5 hrs)
  - 1.78 million people

A variety of additional fellowships are also available. Please contact us for more information.