Faculty Position Available in  
**Digital Systems Entomology**  
**Cornell AgriTech, Cornell University**

**Position:** Assistant Professor, Tenure-track.

**Location:** Cornell AgriTech, Geneva, NY 14853-5701. The academic home for this position is the Department of Entomology in the College of Agriculture and Life Sciences.

**Position Description and Responsibilities:**  
The Department of Entomology at Cornell University seeks to fill a tenure-track position in digital systems entomology at the Assistant Professor level to be located at Cornell University’s AgriTech campus at the NY State Agricultural Experiment Station in Geneva, NY. This position has an effort split of 70% research and 30% extension on a 9-month academic year basis. We are seeking candidates capable of developing a cutting-edge program, incorporating diverse computational approaches that integrate biological, climatological, land use, demographic, population, and economic data to improve pest management in specialty crops, such as fruit, vegetables, herbs, turf and ornamentals. Modern expertise in computation and data science will leverage our abilities to develop holistic understanding of short- and long-term drivers of pest populations, their impact, and effective management strategies. It is increasingly possible to generate or obtain large multivariate dynamic data that inform understanding of the distribution, ecological function, status and impact of agricultural pests. The successful candidate will have opportunities to create interdisciplinary collaborations with plant pathologists, horticulturists, plant breeders and others to solve pest problems of specialty crops such as epidemiology and management of arthropod-transmitted pathogens and deployment of tactics that reduce the impact of arthropod pests and diseases on specialty crop yield and quality, and to link with the ongoing activities of the Cornell Institute for Digital Agriculture (CIDA). We expect the candidate to have experience with data engineering and the ability to generate new data, use existing datasets, create novel data connections, and publish novel data pipelines.

**Responsibilities:**  
**Research** (70%) – The successful candidate will develop an externally funded research program that applies advanced data science and computational methods such as dynamic systems modeling, artificial intelligence, optimization, statistics, and machine learning to better understand the dynamics governing arthropod pest populations and to improve pest management in specialty crops. Research should translate basic discoveries on the underlying drivers of arthropod biology, including climate change and other anthropogenic processes, into applications with the goal of improving management of arthropod pests of specialty crops.
**Extension** (30%) – The successful candidate will provide leadership in developing digital tools to help specialty crops producers make more effective, economical, and sustainable pest management decisions. The candidate will be expected to work in a team environment and develop strong collaborative efforts with faculty and extension personnel. We also anticipate that the candidate will use computational approaches to both deliver and evaluate their extension programming with diverse stakeholders of specialty crops producers and work closely with regulatory agencies to help them develop science-based policies.

**Teaching** - There is no formal teaching assignment with this position although there is an expectation that the successful candidate will contribute guest lectures where relevant.

**Qualifications:**
A Ph.D. in entomology or related discipline, a strong background in computer science and working knowledge of computational and data science methodologies, and experience in applying them to managed biological systems are required. A commitment to agriculture and to the development of multidisciplinary team-based research and extension programs is essential.

**Applications and Starting Date:** Anticipated starting date is July 2020 or as negotiated.
Applications include a CV, cover letter, statements of research and extension interests, copies of four relevant publications, a statement of diversity, equity, and inclusion, three reference letters, and unofficial transcripts. Materials should be submitted online to: [http://academicjobsonline.org/ajo/jobs/15425](http://academicjobsonline.org/ajo/jobs/15425). Applications will be reviewed starting December 2019 and will be accepted until the position is filled.

Inquiries may be directed to:
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**Department Affiliation:** The successful candidate will be a faculty member of the Cornell University College of Agriculture and Life Sciences, and will be based in the Department of Entomology in Geneva, NY ([https://entomology.cals.cornell.edu/](https://entomology.cals.cornell.edu/)) within Cornell AgriTech at the NY State Agriculture Experiment Station ([https://agritech.cals.cornell.edu/](https://agritech.cals.cornell.edu/)). A mentoring program for new faculty provides guidance and assistance.
The College of Agriculture and Life Sciences is a pioneer of purpose-driven science and home to Cornell University’s second largest population of students, faculty and staff. We work across disciplines to tackle the challenges of our time through world-renowned research, education and outreach. The questions we probe and the answers we seek focus on three overlapping concerns: natural and human systems; food, energy and environmental resources; and social, physical and economic well-being.

Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the Upstate New York Higher Education Recruitment Consortium to assist with dual career searches. Visit http://www.unyherc.org to see positions available in higher education in the upstate New York area.

The new faculty member will join a collaborative, interdisciplinary community on the main campus in Ithaca, New York. Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students and staff impart an uncommon sense of larger purpose and contribute creative ideas to further the university's mission of teaching, discovery and engagement.

Cornell, Ithaca, and Geneva are family-friendly communities: Cornell has a comprehensive set of policies, services and benefits to help you and your family to feel welcome here, to support your well-being, and to support you in caring for your family. Visit the Family Life Resources website for more details.

Cornell's global presence includes the medical college's campuses on the Upper East Side of Manhattan and Doha, Qatar, as well as the Cornell Tech campus to be built on Roosevelt Island in the heart of New York City.

The Cornell community embraces diversity and inclusion. We value AA/EEO, Protected Veterans, and Individuals with Disabilities, and seek candidates who will create a climate that attracts persons of all races, ethnicities and genders.