



# Великие работы женщин- астрономов: XIX-XX век

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# Caroline Herschel - Comet Hunter

I was born in Hanover, in Germany, in **1750**. Until I was 22 I was my mother's unpaid servant.

*"My father told me that as I had neither beauty nor riches, no man would be likely to make me an offer until I was old, when some one might like, on account of my worth, to marry me."*

In **1772** I moved to Bath to join my musician brother William. He planned to train me as a singer (I was first soloist by **1777**), but he was distracted by his growing interest in Astronomy...

My musical career ended in **1781** when William discovered a new planet - Uranus. He was made King's Astronomer the year after and we moved to Berkshire.

*"(I) found I was to be trained for an assistant Astronomer...I was to sweep for Comets, and I...began Aug 22nd **1782** to write down...all remarkable appearances that I saw in my Sweeps."*

I learned fast and by **1783** I'd already discovered new nebulae with my own telescope, but my main job was to assist William with his observations. This could be dangerous:

*"...having to run in the dark on ground covered foot deep with melting snow I fell on one of these hooks which entered my right leg...my brother (called) make haste, I could only answer by a pitiful cry I am hooked"*

I found my first comet in **1786**, the first ever found by a lady. By **1797** I'd added 6 more.

In **1787** I was granted a salary of £50 per year by George III, making me the **first ever professional female astronomer**.

William died in **1828** and I returned to Hanover. This stopped my astronomical observing but I continued to work with the observations I already had.

The Royal Astronomical Society awarded me their gold medal in **1828** in recognition of my catalogues. I became an Honorary Member of the society in **1835**, one of only 2 women.

I died in **1848**, aged 97. My obituary said that *"...her memory...will live on its own merit even though...the time should come when the astronomical celebrity of a woman would not...be sufficient to excite the slightest remark"*



The Herschel Space Telescope, launched in **2009**, carries on the Herschel name. It has just begun its study of the Universe.

# Мэри Сомервилль (1780-1872)



- «Небесная механика» (1831)
- «Взаимосвязь физических наук» (1834)
- «Физическая география» (1848)
- «Молекулярная и микроскопическая наука» (1869)

# Мэрайя Митчелл (1818-1889)



- 1 октября 1847 года – открытие кометы в телескоп; медаль датского короля!
- 1848: Американская академия искусств и наук; 1850: Американская ассоциация содействия развитию науки; 1869: Американское философское общество.
- 1865: профессор астрономии и директор обсерватории в Колледже Вассар.

# «Гарем» Эдварда Пикеринга



- Вильямина Флеминг (1857-1911): открытие «Конской головы», управление коллекцией фотопластинок Гарвардской обсерватории.
- Генриетта Ливитт (1868-1921): зависимость период-светимость для цефеид.
- Антония Мори (1866-1952), Энни Кэннон (1863-1941): спектральная классификация звезд.

# Сесилия Пэйн-Гапошкина (1900-1979)



- Диссертация «Звездные атмосферы» (1925): звезды состоят в основном из водорода и гелия! (а не из железа, как думали все).

# Джоселин Белл (1943-...)



1968:  
открытие пульсаров

# Эволюционный синтез интегрального излучения галактик

- Беатрис Тинсли  
(1968 и далее до  
самой смерти в 1981  
году)



Beatrice Tinsley (1941-1981)



# Мэтрессы внегалактической астрономии



Маргарет Бэрбидж



Вера Рубин