

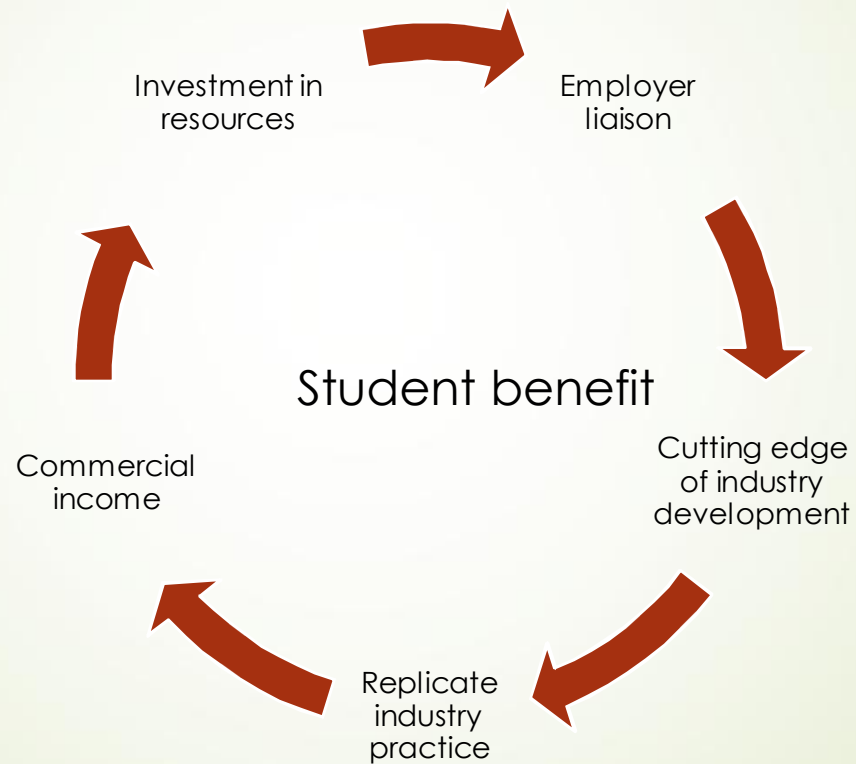


# Research in Fishery Studies at Sparsholt College

Caroline James



# Role of research at Sparsholt



# Higher Education




- Data analysis projects
- Dissertations
- Commercial trial that funds an overseas study tour
- Visiting speakers, networking and work experience



# Further Education

- Understanding the industry
- Employability skills
- Maths, maths, maths.....



# Range of research

- ▶ Aquatics trade
  - ▶ Filter developments
  - ▶ Lighting
  - ▶ Aquarium set-up and design
  - ▶ Feed trials
    - ▶ <http://www.hampshirecarp.co.uk/food-for-thought-sponsored-feed-trial/>

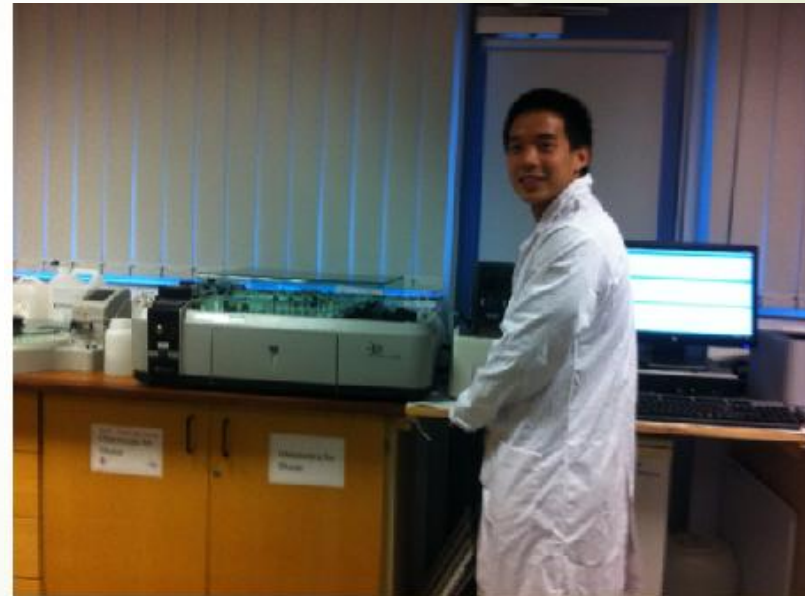
# Range of research

- ▶ Water quality analysis

- ▶ Nitrate
- ▶ Nitrite
- ▶ Ammonia
- ▶ Phosphorous

- ▶ Biosecurity

- ▶ Efficacy of new disinfectants





# Range of research

- Fishery management
  - Assess impact of habitat management on diversity of fish stocks



- Assess impact of river restocking and population migration



# Range of research

- ▶ Salmon & trout industry
  - ▶ Inclusion of vegetable protein vs fish meal
  - ▶ Inclusion of vegetable oil vs fish oil ( $\Omega 3$  vs  $\Omega 6$ )
  - ▶ New formulations – fishmeal from fish processing waste
  - ▶ Comparison with industry competitors
  - ▶ Pigmentation additives – 10-20% of ration cost
  - ▶ Ration rates
  - ▶ Palatability
  - ▶ Taste and carcass quality









# Salmonid Rearing & Trials Centre

- Controlled environment
- Improved bio-security
- Industry standard production facilities
- Low energy consumption
- Water Framework Directive compliant using settlement tanks and biological filtration

